ANNUAL SUMMARY OF VITAL STATISTICS KANSAS

1986

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ANNUAL SUMMARY OF VITAL STATISTICS KANSAS, 1986

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HIGHLIGHTS

Population

The estimated population of Kansas in 1986 was 2,463,000. (p. 22)

The 1986 natural increase (live births minus total deaths) was 17,044 for a rate of 6.9 per 1,000 population. (p. 22)

The average number of inhabitants per square mile in 1986 was 30.1; however, 21 of Kansas' counties had population densities of less than 5.0. (p. 22 and Figure 4, p. 23)

Live Births

The Kansas live birth rate in 1986 was 15.9 per 1,000 population which was 2.6 percent higher than the estimated national rate of 15.5. (Figure 5, p. 25)

Kansas birth rates and fertility rates have followed a pattern similar to national birth and fertility rates during the past twenty years. (Figure 5, p. 25 and Figure 6, p. 27)

Of the 39,177 births in 1986, only 139 (0.4 percent) occurred outside the hospital setting. (p. 28)

Of the total number of live births to mothers under 20, over half (53.7 percent) were out-of-wedlock. (p. 32)

Birth-Related Mortality

Neonatal deaths totaled 190 in 1986, a decrease of 16.3 percent from the 227 recorded in 1985. (Table 1, p. 15)

Since 1956 there has been a general downward trend in the perinatal period III death rate from 28.0 per 1,000 total births in 1956 to 10.0 in 1986. (Table 4, p. 42)

In 1986 the Kansas infant death rate declined to 8.6 per thousand live births, the lowest rate on record. The Kansas rate was 17.3 percent lower than the estimated United States rate of 10.4. (p. 43)

"Congenital anomalies" was the most common cause of infant death in Kansas in 1986 and accounted for 23.1 percent of all infant deaths. (Table 5, p. 45)

General Mortality

The Kansas death rate in 1986 was 9.0 per thousand population, 3.4 percent higher than the estimated national rate of 8.7. (Figure 15, p. 49)

Highlights (cont.)

The average age at death of Kansas residents in 1986 was 72.3 years. The average age of males in 1986 was 68.7 at the time of death; that of females was 76.0. (Table 6, p. 53)

Heart disease, cancer, cerebrovascular disease and accidents were the four leading causes of death among Kansans in 1986 and accounted for 69.8 percent of all deaths. (Figure 18, p. 59)

Heart disease, the number one cause of death in Kansas, claimed 8,037 lives in 1986 and constituted 36.3 percent of the total number of deaths. (Figure 19, p. 61)

The cancer death rate in Kansas was 188.9 per 100,000 population in 1986, 2.3 percent lower than the estimated national rate of 193.4. (p. 54)

Accidents accounted for almost half (47.9 percent) of all deaths to children 1 to 14 years of age. (Figure 19, p. 61)

The Kansas suicide rate was 13.6 in 1986, 7.9 percent higher than the estimated 1986 national rate of 12.6. (p. 64)

The Kansas homicide and legal intervention rate was 4.7 per 100,000 population in 1986, 46.0 percent lower than the estimated national rate of 8.7. (p. 70)

In 1986, only 306 deaths were attributed to atherosclerosis; yet, 1,011 of the deaths due to the ten leading underlying causes listed atherosclerosis as a contributing factor. (Table 16, p. 71)

Special AIDS Summary

The first Kansas case of AIDS was reported in 1982 and the number of cases has grown significantly since then. There have been 79 total AIDS cases reported through July 7, 1987. (p. 76)

AIDS typically affects a white, homosexual or bisexual male in the 30-39 year age group. Since 1982, 55 of the 79 reported cases of AIDS in Kansas (69.6 percent), have been to homosexual or bisexual males. (p. 78, Figure 22, p. 77)

Of the 79 total cases of AIDS reported since 1982 in Kansas, over three-fourths (77.2 percent) were reported in the four Kansas counties with populations over 100,000. (Table 19, p. 78)

Marriages

The 22,667 marriages performed in Kansas in 1986 represented a 2.6 percent decrease from the 23,281 performed in 1985. The marriage rate was 9.2 per 1,000 population, which was 8.0 percent lower than the estimated national rate of 10.0. (p. 82)

More wedding ceremonies were performed in June than any other month in 1986, with August and May being the second and third most popular months. (p. 85)

Highlights (cont.)

Divorces and Annulments

The number of divorces and annulments granted in Kansas decreased 3.4 percent from the 12,794 in 1985 to 12,364 in 1986. The divorce and annulment rate was 5.0 per 1,000 population, which was 4.2 percent greater than the estimated national rate of 4.8. (p. 88)

Marriages ending in divorce lasted an average of 8.1 years, while those receiving annulments lasted an average of 1.7 years. (p. 90)

INTRODUCTION

KANSAS VITAL STATISTICS FOR 1986

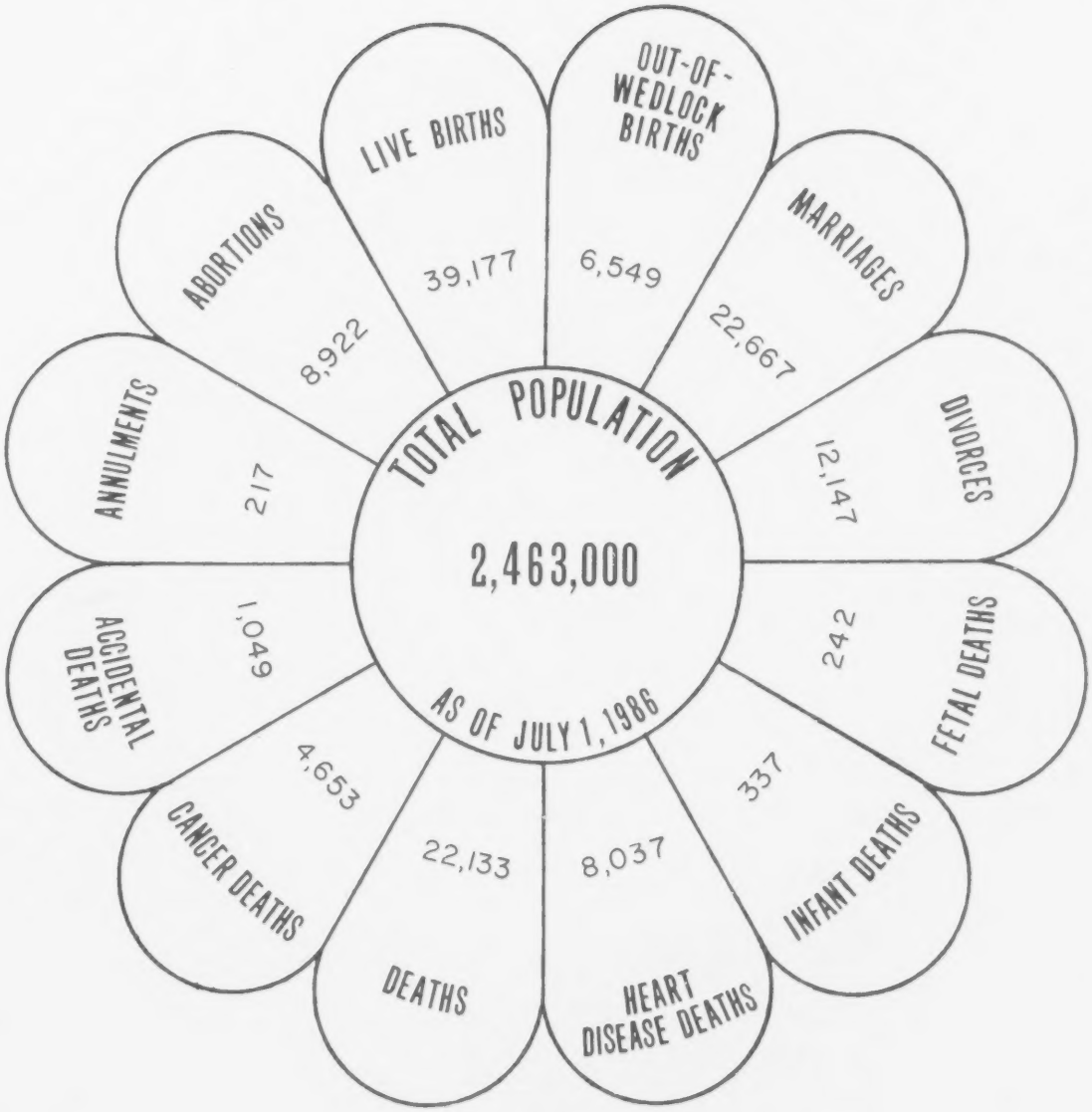


Figure 1

Marriages, divorces, annulments and abortions are displayed above as occurrence data and all other vital statistics represent residence data.

INTRODUCTION

The Kansas Department of Health and Environment presents the 1986 edition of the Annual Summary of Vital Statistics. This report is a summary of data compiled from vital and health records for the 1986 calendar year and these data are displayed in Figure 1. The contents include information on population, abortions, and such vital events as live births, fetal deaths, deaths, marriages, divorces and annulments.

Registration

The statewide registration of marriage, birth and death records was initially established as a statutory duty of the Kansas State Board of Health (now the Kansas Department of Health and Environment) in 1885. At that time, law K.S.A. 65-102 specifically provided that, "the state board of health shall supervise the registration of marriages, births and deaths, and also the registration of forms of disease prevalent in the state; and the secretary of said board shall superintend the registration of the vital statistics of the state." In 1911, systematic filing of the birth and death records at the State level was begun. Registration requirements for marriages and divorces were initiated in 1913 and 1951, respectively. Since registration of vital events began seventy-six years ago, over eight million records have been processed, filed and indexed.

Technical Notes

The information presented in this report includes statistics compiled from records received during 1986 and any delayed 1986 events registered through March 15, 1987. The number of certificates submitted after that time is considered to be negligible for purposes of annual statistical compilations. Therefore, no adjustments have been made for under-registration.

The data contained in this annual summary are primarily residence data and refer to events happening to Kansas residents (classified by county of usual residence) regardless of where the event occurred. Mother's usual residence is utilized with reference to births and fetal deaths (stillbirths). In most instances, abortion information refers to Kansas resident abortions; however, occurrence data are occasionally referenced. Marriages, divorces and annulments are occurrence data, for residents and nonresidents, in that marriages are recorded by county of marriage and divorces and annulments by county of decree. In many cases annulments have been grouped with divorces for purposes of presentation in this report.

The 1979 and 1981 through 1986 State, county and city population estimates utilized throughout the report were prepared by the Kansas Department of Health and Environment (KDHE) and were computed by using U.S. Bureau of the Census figures as a base and extrapolating by the method of regression analysis. The 1980 population figures were obtained from the U.S. Bureau of the Census. Population figures prior to 1979 were obtained from the U.S. Bureau of the Census during census years and from compilations prepared by the State Board of Agriculture from reports by county appraisers during noncensus years.

The Department has revised its population estimates for 1985 and 1986 based on updated input data from the Bureau of the Census. Therefore, 1985 population estimates and rates published in this summary will differ from those previously published.

In many cases rates and ratios are based upon a small number of events and/or a small population. Therefore, care should be exercised in the interpretation of these data as they may not be indicative of actual trends.

Comments and suggestions concerning the contents or general format of this report are welcome and should be directed to the Kansas Department of Health and Environment. Since this publication is only a summary, many details which are being tabulated for inclusion in the Department's permanent statistical files are not presented. More detailed information may be obtained from KDHE upon request.

DEFINITIONS

DEFINITIONS

The following terms, formulas and symbols are defined for more meaningful interpretation of the data contained in this report.

Abortion: (induced termination of pregnancy)	The deliberate interruption of pregnancy with the intention other than to produce a liveborn infant or to remove a dead fetus and which does not result in a live birth.
Annulment:	The invalidation of a marriage contract.
Birth Weight:	The weight of the fetus or infant at the time of delivery.
Cause of Death:	The underlying cause of death, or that condition giving rise to the chain of events leading to death.
Congenital Anomalies:	Congenital or hereditary defects present at birth.
Divorce:	The dissolution of a legally binding marriage contract.
Fetal Death:	The complete expulsion or extraction of a product of human conception from its mother, that weighs more than 350 grams and is, irrespective of the duration of pregnancy, not a live birth. (Intentionally aborted fetuses that weigh more than 350 grams are not included as fetal deaths in this report.)
Hebdomadal Death:	The death of a liveborn infant which occurs prior to the seventh day of life.
I.C.D. Code:	The disease-identifying number classified in the Ninth Revision of the International Classification of Diseases adopted in 1979.
Infant Death:	The death of a liveborn infant which occurs within the first year of life.
Legal Intervention:	Includes legal execution and injuries inflicted by the police or other law-enforcing agents, including military on duty, in the course of arresting or attempting to arrest law breakers, suppressing disturbances, maintaining order and other legal action.

Live Birth:	The complete expulsion or extraction of a product of human conception from its mother, irrespective of the duration of pregnancy, that, after such expulsion or extraction, shows any evidence of life such as breathing, heart beat, pulsation of the umbilical cord, or voluntary muscle movement, whether or not the umbilical cord has been cut or the placenta attached.
Marriage:	The legal union of a male and female.
Maternal Death:	The death of a mother caused by complications of pregnancy, childbirth or the puerperium.
Natural Increase:	Live births minus total deaths of a population within a given year.
Neonatal Death:	The death of a liveborn infant which occurs prior to the twenty-eighth day of life.
Net Migration:	The population increase or decrease minus the natural increase.
Occurrence Data:	Vital statistics compiled on the basis of where the vital event happened.
Out-of-Wedlock Birth:	A birth occurring to a mother who is not married at the time of birth.
Perinatal Period III Death:	The aggregate total of fetal deaths, where the fetus weighs over 350 grams, and hebdomadal deaths (deaths that occur prior to the 7th day of life).
Population Density:	The average number of inhabitants per square mile.
Premature Birth:	Birth of an infant weighing 2,500 grams or less (5 lbs. 8 oz.) at the time of birth.
Puerperium:	Period of time after delivery, usually six to eight weeks, during which all maternal reproductive organs return to the normal pre-pregnancy condition.
Residence Data:	Vital statistics compiled on the basis of the usual place of residence of the person(s) to whom the vital event occurred.
Total Births:	All live births plus fetal deaths.

RATES AND RATIOS

Abortion Ratio:	$\frac{\text{induced abortions}}{\text{live births}}$	X 1,000
Birth Rate:	$\frac{\text{live births}}{\text{total population}}$	X 1,000
Death Rate:	$\frac{\text{total deaths}}{\text{total population}}$	X 1,000
Disease-Specific Death Rate:	$\frac{\text{disease-specific deaths}}{\text{total population}}$	X 100,000
Divorce Rate:	$\frac{\text{divorces}}{\text{total population}}$	X 1,000
Divorce and Annulment Rate:	$\frac{\text{divorces and annulments}}{\text{total population}}$	X 1,000
Fertility Rate:	$\frac{\text{live births}}{\text{female population 15-44}}$	X 1,000
Fetal Death Rate:	$\frac{\text{fetal deaths}}{\text{total births}}$	X 1,000
Hebdomadal Death Rate:	$\frac{\text{hebdomadal deaths}}{\text{live births}}$	X 1,000
Infant Death Rate:	$\frac{\text{infant deaths}}{\text{live births}}$	X 1,000
Marriage Rate:	$\frac{\text{marriages}}{\text{total population}}$	X 1,000
Maternal Death Rate:	$\frac{\text{maternal deaths}}{\text{live births}}$	X 10,000
Natural Increase Rate:	$\frac{\text{live births minus total deaths}}{\text{total population}}$	X 1,000
Neonatal Death Rate:	$\frac{\text{neonatal deaths}}{\text{live births}}$	X 1,000
Net Migration Rate:	$\frac{\text{net migration}}{\text{total population}}$	X 1,000
Out-of-Wedlock Birth Ratio:	$\frac{\text{out-of-wedlock births}}{\text{live births}}$	X 100
Perinatal Period III Death Rate:	$\frac{\text{perinatal period III deaths}}{\text{total births}}$	X 1,000
Premature Birth Ratio:	$\frac{\text{premature births}}{\text{live births}}$	X 100

SYMBOLS AND ABBREVIATIONS

n.s.	not stated
n.a.	not available
n/a	not applicable
-	zero
0.0	quantity or percent more than zero but less than 0.05.
...	rate or percent not applicable
*	rate, ratio, or percent does not meet statistical standards of precision or reliability (designated whenever the denominator is less than 100).

SUMMARY OF VITAL EVENTS

Table 1
Vital Events and Percent Change
Kansas, 1986, 1985 and 1976

Vital Event	1986	1985	Percent Change 1985 to 1986	1976	Percent Change 1976 to 1986
Total Births.....	39,419	39,692	-0.7	35,713	10.4
Live Births.....	39,177	39,418	-0.6	35,278	11.1
Premature.....	2,426	2,406	0.8	2,257	7.5
Out-of-wedlock.....	6,549	5,818	12.6	3,491	87.6
Fetal Deaths.....	242	274	-11.7	435	-44.4
Total Deaths.....	22,133	21,808	1.5	21,780	1.6
Perinatal Deaths...	395	458	-13.8	709	-44.3
Hebdomadal Deaths..	153	184	-16.8	274	-44.2
Neonatal Deaths....	190	227	-16.3	329	-42.2
Infant Deaths.....	337	357	-5.6	492	-31.5
Maternal Deaths....	1	3	*	1	*
Marriages.....	22,667	23,281	-2.6	23,559	-3.8
Divorces.....	12,147	12,543	-3.2	12,537	-3.1
Annulments.....	217	251	-13.5	296	-26.7

Residence data are presented for births and deaths.
Occurrence data are presented for marriages, divorces and annulments.

SUMMARY OF VITAL EVENTS

Registration of Kansas vital events (live births, total deaths, fetal deaths, marriages, divorces and annulments) decreased 1.0 percent from 97,575 in 1985 to 96,583 in 1986. Table 1 compares these vital events of 1986 with those of 1985 and 1976.

Notable percentage changes between 1985 and 1986 were a 16.8 percent decrease in the number of hebdomadal deaths and a 12.6 percent increase in the number of out-of-wedlock births. Between 1976 and 1986, the largest percentage changes were a 87.6 percent increase in the number of out-of-wedlock births and a 44.4 percent decrease in the number of fetal deaths.

Another method of examining trends in vital events is the comparison of rates from year to year. Table 2 examines these rates (rate computations are described on pages 10 and 11) from 1976 to 1986 and the rates are graphically presented in Figure 2.

The total death rate in 1986 (9.0) decreased 4.3 percent from the 1976 rate of 9.4. The live birth rate increased 4.6 percent, from 15.2 in 1976 to 15.9 in 1986. The marriage rate in 1986 decreased 8.9 percent, from 10.1 in 1976 to 9.2 in 1986. The divorce and annulment rate decreased from 5.5 in 1976 to 5.0 in 1986.

Infant, hebdomadal and neonatal death rates decreased considerably after 1976. In 1984, the infant death rate fell below 10.0 per 1,000 live births for the first time since statewide registration began. The infant death rate decreased from 9.1 in 1985 to 8.6 in 1986.

The remainder of this report elaborates on each of these vital events, summarizing the data from 1986 vital and health records, depicting trends and comparing Kansas events with those for the United States where appropriate.

Table 2
Vital Events by Number, Rate and Ratio*
Kansas, 1976-1986

Vital Event	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Live Births											
Number	35,278	36,827	36,581	38,916	40,686	41,202	40,757	40,365	39,954	39,418	39,177
Rate	15.2	15.7	15.5	16.5	17.2	17.2	16.9	16.6	16.3	16.1**	15.9
Out-of-Wedlock Births											
Number	3,491	3,873	4,183	4,593	4,979	5,086	5,259	5,243	5,501	5,818	6,549
Ratio	9.9	10.5	11.4	11.8	12.2	12.3	12.9	13.0	13.8	14.8	16.7
Fetal Deaths											
Number	364	308	331	330	340	316	336	296	277	274	242
Rate	10.2	8.3	9.0	8.4	8.3	7.6	8.2	7.3	6.9	6.9	6.1
Hebdomadal Deaths											
Number	310	335	254	260	226	264	234	202	200	184	153
Rate	8.8	9.1	6.9	6.7	5.6	6.4	5.7	5.0	5.0	4.7	3.9
Perinatal Period III Deaths											
Number	674	643	585	590	566	580	570	498	477	458	395
Rate	18.9	17.3	15.8	15.0	13.8	14.0	13.9	12.3	11.9	11.5	10.0
Neonatal Deaths											
Number	365	373	302	301	269	322	273	237	251	227	190
Rate	10.3	10.1	8.3	7.7	6.6	7.8	6.7	5.9	6.3	5.8	4.8
Infant Deaths											
Number	492	480	440	427	412	452	417	406	392	357	337
Rate	13.9	13.0	12.0	11.0	10.1	11.0	10.2	10.1	9.8	9.1	8.6
Maternal Deaths											
Number	1	4	8	3	4	6	3	4	4	3	1
Rate	0.3	1.1	2.2	0.8	1.0	1.5	0.7	1.0	1.0	0.8	0.3
Total Deaths											
Number	21,780	21,271	21,566	21,062	21,910	21,579	21,700	21,816	22,184	21,808	22,133
Rate	9.4	9.1	9.1	8.9	9.3	9.0	9.0	9.0	9.1	8.9**	9.0
Marriages											
Number	23,559	23,673	23,975	24,774	24,847	26,137	26,670	25,877	24,737	23,281	22,667
Rate	10.1	10.1	10.2	10.5	10.5	10.9	11.1	10.7	10.1	9.5**	9.2
Divorces and Annulments											
Number	12,833	12,629	12,668	12,749	13,410	13,737	12,392	12,207	12,905	12,794	12,364
Rate	5.5	5.4	5.4	5.4	5.7	5.7	5.1	5.0	5.3	5.2**	5.0

*Rate and Ratio computations are explained on pages 10 and 11.
Residence data are presented for births and deaths.
Occurrence data are presented for marriages, divorces and annulments.

**Rates have been recalculated based on the revised population estimates for 1985 and will differ from those previously published.

SELECTED VITAL EVENT RATES
KANSAS, 1976-1986

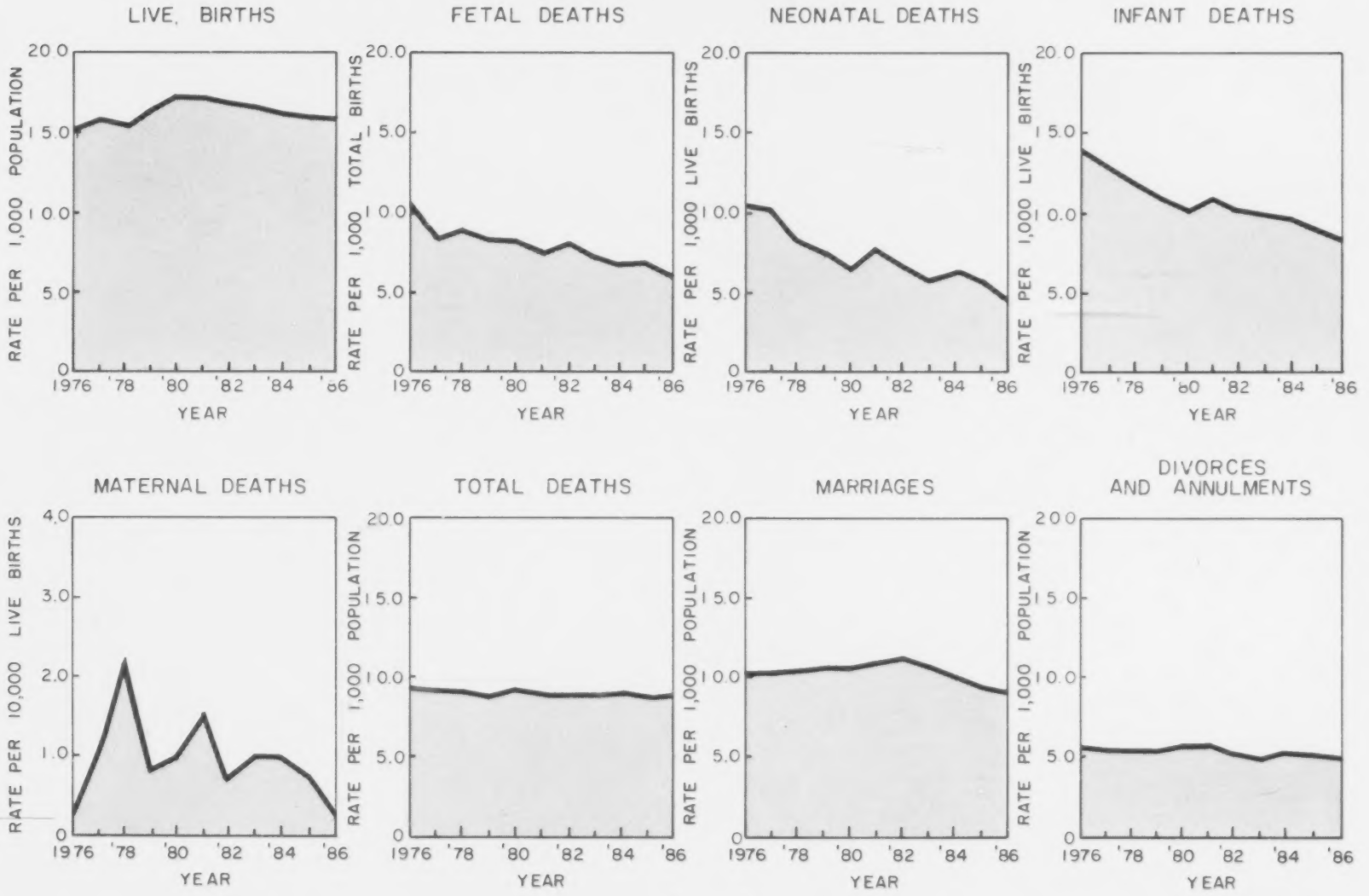
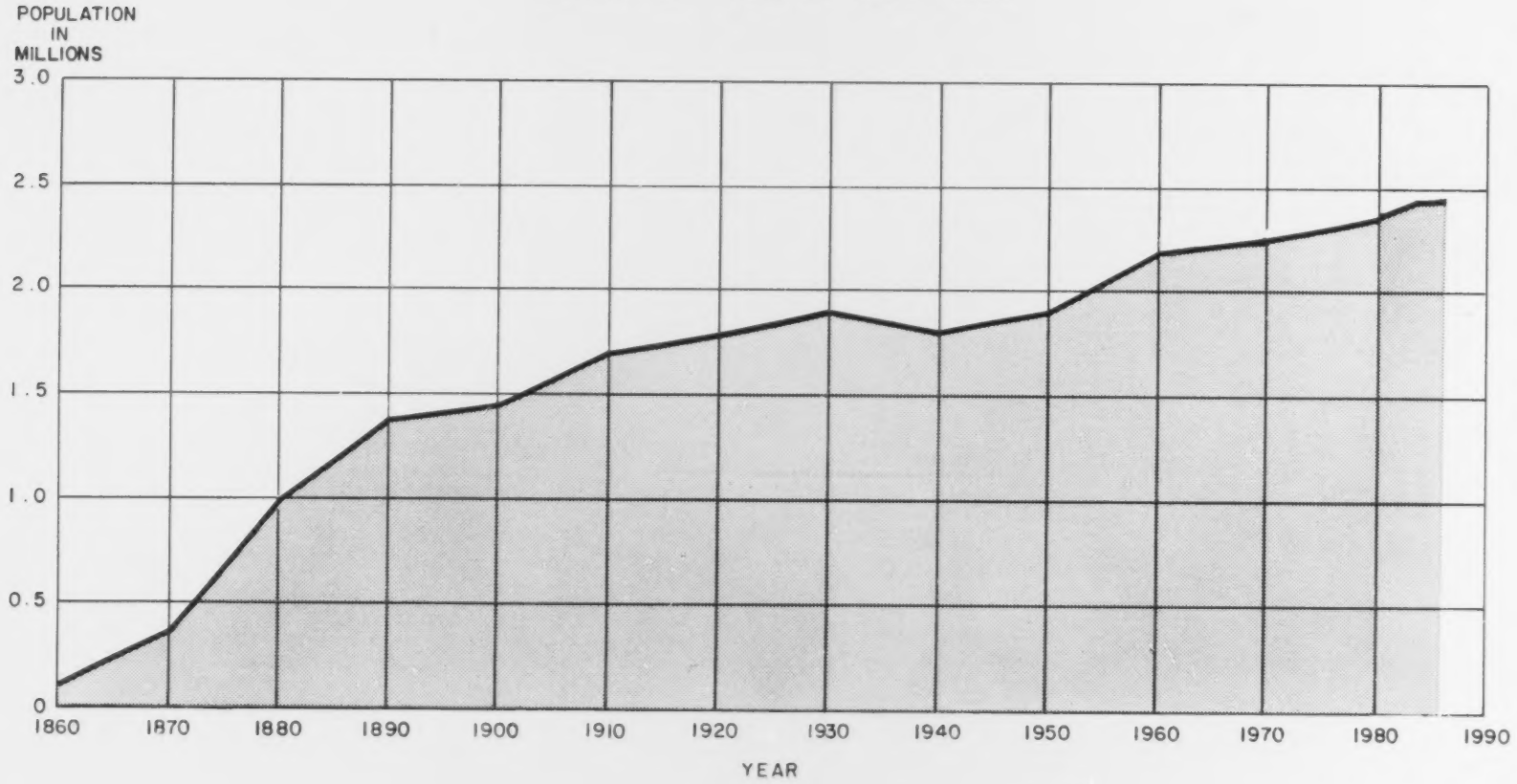


Figure 2

POPULATION

POPULATION GROWTH IN KANSAS
SELECTED YEARS, 1860 - 1986



Sources of Population Counts: Kansas Department of Health and Environment (1981-1986)
United States Bureau of the Census (all other years)

Figure 3

POPULATION

In 1986 the estimated population of Kansas was 2,463,000. This figure was determined by the Kansas Department of Health and Environment and is an increase of 0.5 percent, or 13,000, over that estimated for July 1, 1985. As mentioned in the Introduction, the 1985 population estimates have been revised and will differ from those previously published.

As depicted in Figure 3, Kansas experienced its most rapid population growth during the second half of the nineteenth century. During the thirty-year period from 1860 to 1890 population increased thirteen-fold. The next thirty years demonstrated slower growth, increasing by less than two-fold from 1890 to 1920. The reduction in the birth rate and the increase in emigration during the Depression Years of the 1930's resulted in a decrease in total population of almost four percent. Population began increasing again with the onset of World War II. The economic prosperity of the Fifties and the ensuing "Baby Boom" were reflected in a population increase of 14.3 percent from 1950 to 1960. Slowed growth was again exhibited during the Sixties when the population increased 3.2 percent, and in the Seventies, with an increase of 5.1 percent. Over the past five years the population has increased 3.1 percent. (County population totals, 1985 and 1986, are given in Appendix Table 28. Population totals for 96 cities, 1985 and 1986, are presented in Appendix Table 37.)

Natural Increase

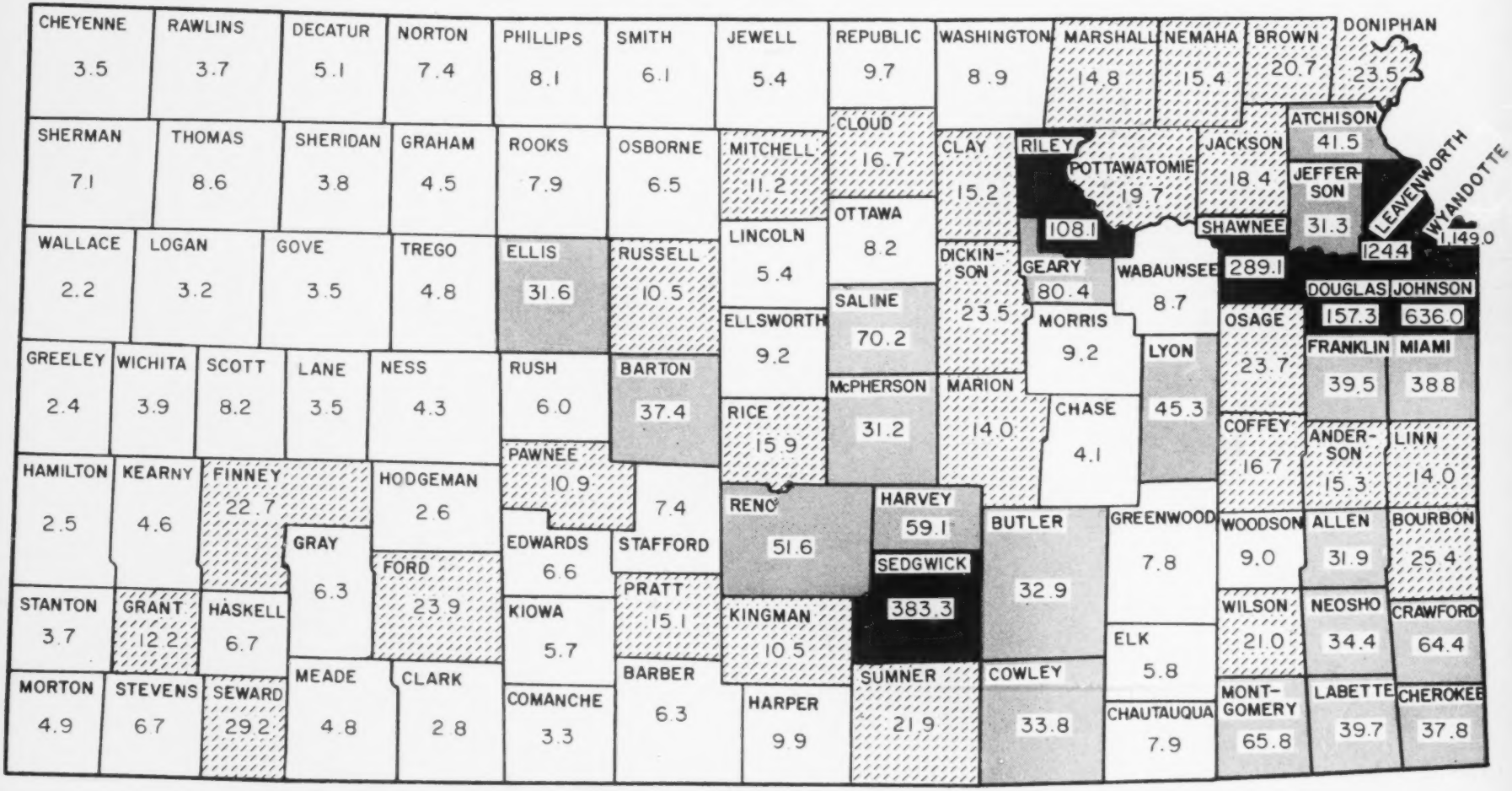
The combined factors of the natural increase (live births minus total deaths) and net migration (actual population increase or decrease minus the natural increase) determine population growth. During the past thirty years, the highest natural increase was 33,408 in 1956, which represents a natural increase rate of 16.1 per thousand population. Natural increase showed a downward trend in the years that followed, decreasing to 9,247 and a rate of 4.0 per thousand population in 1973. In 1974, natural increase began rising and reached 19,623 in 1981. The 1986 natural increase was 17,044 for a rate of 6.9.

Population Density

The total land area of the State of Kansas is 81,786 square miles. The population density of the State, or the average number of inhabitants per square mile, in 1986 was 30.1 as compared with 30.0 in 1985 and 1984.

As illustrated in Figure 4, the population density varied considerably among counties. In 1986, 21 of Kansas' 105 counties had population densities of less than 5.0. These counties were predominantly in the western portion of the State. The most sparsely populated county was Wallace, which had a density of 2.2. Seven counties had population densities of 100 or more persons per square mile. Wyandotte County was the most densely populated in Kansas, with 1,149.0 persons per square mile.

POPULATION DENSITY BY COUNTY
KANSAS, 1986



STATE POPULATION DENSITY 30.1

Sources: Land area for each county obtained from the United States Bureau of the Census (1980). Population figures for 1986 were from the Kansas Department of Health and Environment

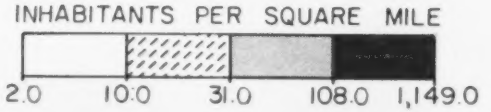
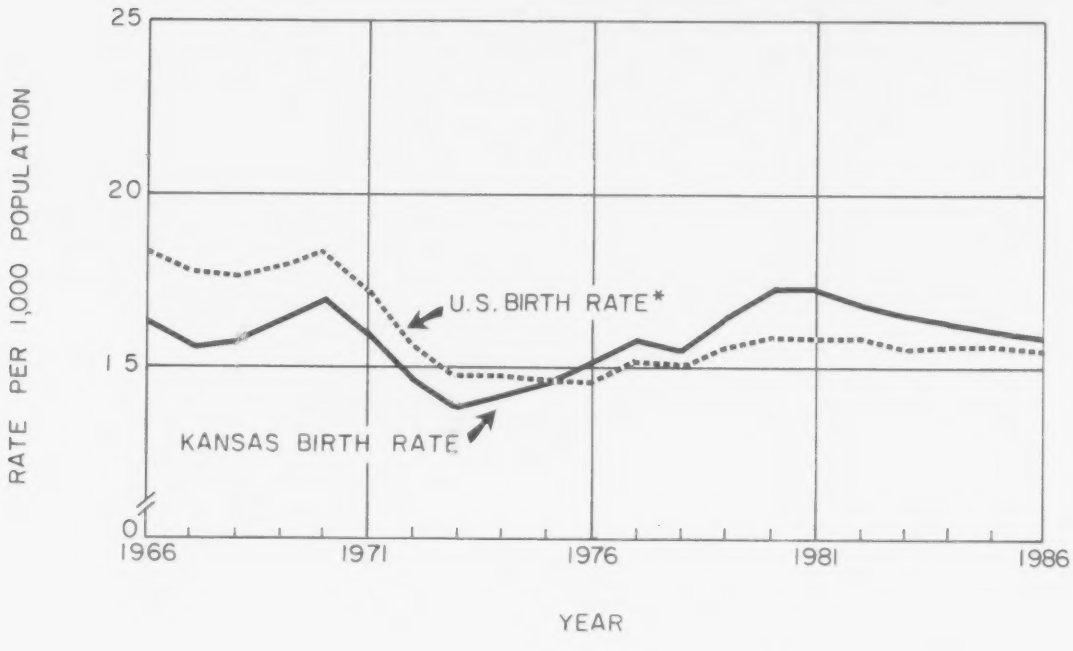


Figure 4

LIVE BIRTHS

BIRTH RATES
KANSAS AND THE UNITED STATES, 1966-1986



* 1985 and 1986 United States birth rates represent provisional data from the National Center for Health Statistics.

Residence data.

Figure 5

LIVE BIRTHS

During 1986, 39,177 live births were recorded for mothers with Kansas residency, representing a birth rate of 15.9 per 1,000 population. This reflects a numerical decrease of 0.6 percent below the 39,418 live births in 1985. Of the ninety-six cities presented in Appendix Table 37 with populations of at least 2,000 inhabitants, Junction City has had the highest birth rate in the State for the past ten years.

Trends

Kansas birth rates and fertility rates have followed a pattern similar to national birth and fertility rates during the past twenty years. Illustrated in Figures 5 and 6 are comparisons of Kansas birth rates and fertility rates with those of the United States.

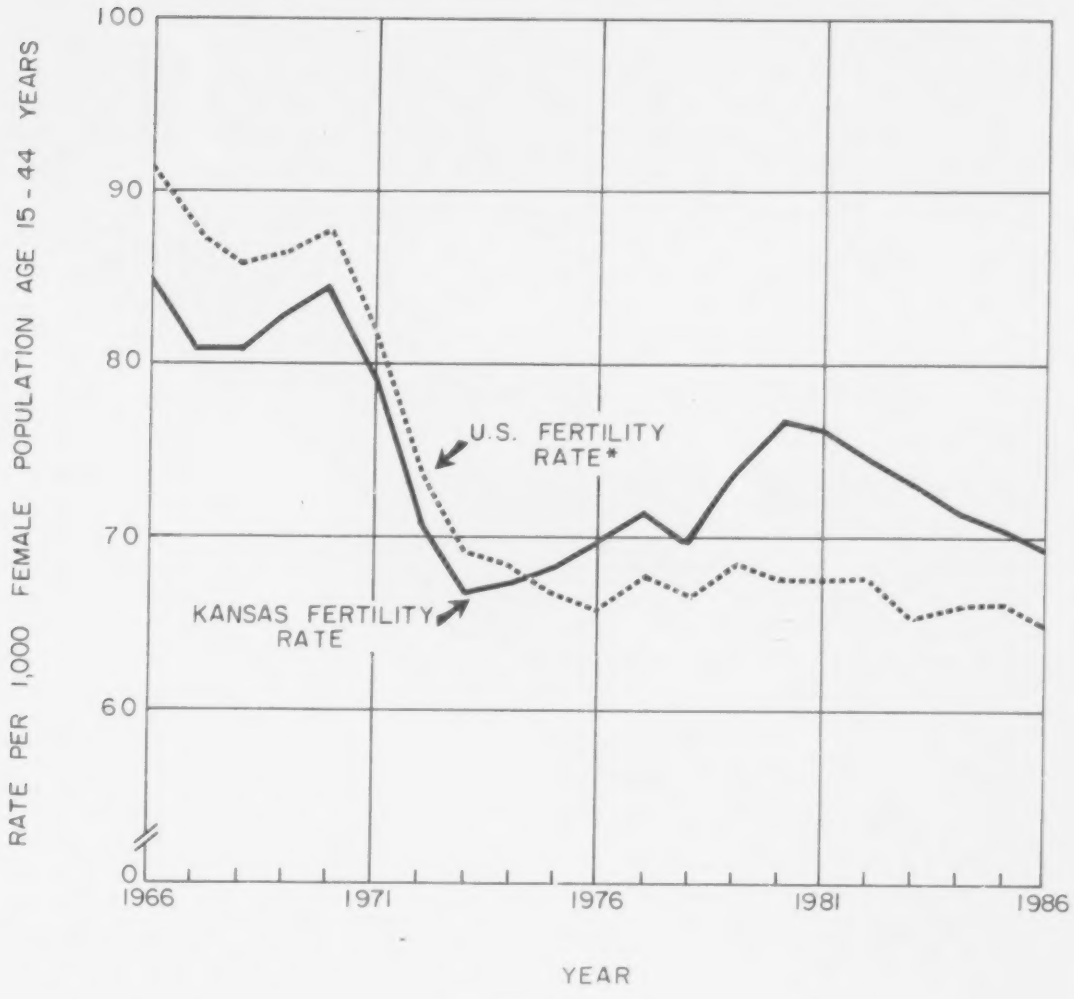
Since 1944, the Kansas birth rate has fluctuated between 26.8 per 1,000 population in 1954, the highest recorded rate in the State, and 13.9 in 1973. Just after World War II, the annual number of births in Kansas increased considerably with the onset of the national "Baby Boom". The State live birth rate increased from 19.4 per 1,000 population in 1944 to 26.8 in 1954. During the next thirteen years, this trend reversed and Kansas experienced a rate decrease. After reaching a low of 15.6 in 1967, the Kansas birth rate turned upward slightly in the late 1960's and 1970. After another short-term decline of three years, the Kansas birth rate reached a new low of 13.9 in 1973. In 1978, Kansas experienced a decreased birth rate for the first time in five years. The birth rate then increased to 17.2 in 1980 and 1981, followed by a five-year decline from 1982 through 1986. (The number of births and birth rates from 1982-1986 for each Kansas county are given in Appendix Table 26.)

The Kansas fertility rate was 93.3 in 1965, 3.1 percent below the national rate of 96.3. Following 1965, the fertility rate began to drop and did so for two consecutive years. After a short-term increase in 1969 and 1970, the fertility rate declined for three years. In 1978, Kansas experienced a decreased fertility rate for the first time in five years followed by an increase in 1979 and 1980. Since 1981, the Kansas fertility rate has declined. In 1986, the fertility rate in Kansas was 69.5.

Sex of Infant, Race and Plurality

Since birth information was first recorded in Kansas in 1915, the percent distribution of live births has remained relatively constant for males and females. In 1915, the percentage breakdown for male and female live births was 51.6 percent and 48.4 percent, respectively. The distribution in 1986 was identical.

FERTILITY RATES
KANSAS AND THE UNITED STATES, 1966 - 1986



* 1985 and 1986 United States fertility rates represent provisional data from the National Center for Health Statistics.

Residence data.

Figure 6

Live Births: Distribution by Race and Sex of Infant

Race of Infant	Live Births	Sex of Infant		
		Male	Female	N.S.
Total	39,177	20,197	18,978	2
White	34,511	17,790	16,719	2
Black	3,458	1,767	1,691	-
Other Races	1,203	638	565	-
N.S.	5	2	3	-

Residence data.

In 1986, 88.1 percent of the liveborn infants in Kansas were white. Another 8.8 percent of the infants were black, and other races represented 3.1 percent of the live births.

In 1986, a total of 883 live births, only 2.3 percent, represented multiple births, while a total of 38,294 single births were recorded. Of the 883 multiple births, 865 were twins, and 18 were triplets.

Birth Order

First births accounted for 38.2 percent of all live births in 1986. Second-born infants represented 34.5 percent and third births, 17.2 percent. Thirty years ago, in 1956, 26.8 percent of the 53,027 live births were first births; 26.6 percent were second-born infants and 20.9 percent were third births. The number and percent of live births by order of birth are presented below for 1986.

Live Births: Number and Percent by Birth Order

Birth Order	Number	Percent
Total	39,177	100.0
First	14,977	38.2
Second	13,505	34.5
Third	6,758	17.2
Fourth	2,517	6.4
Fifth	883	2.2
Sixth	301	0.8
Seventh	117	0.3
Eighth	65	0.2
Ninth	25	0.1
Tenth and Over	29	0.1

Residence data.

Institution of Birth and Attendant

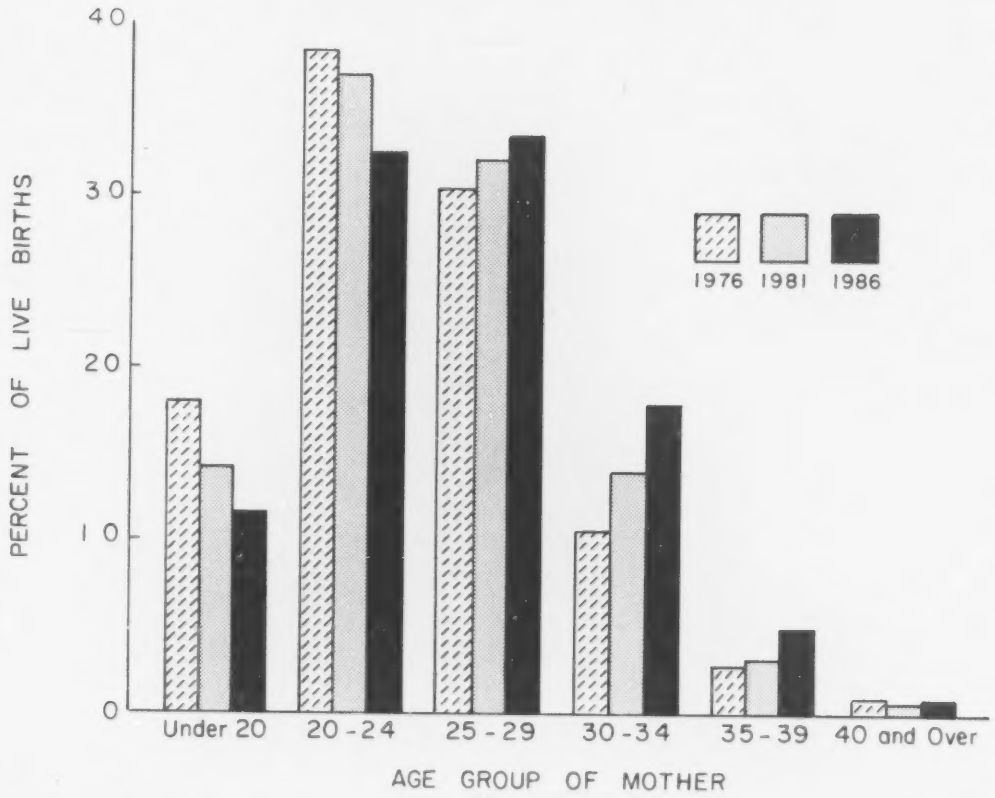
The number of deliveries performed in hospitals has increased dramatically through the years. For example, in 1936, 35.7 percent of all live births occurred in a hospital. Fifty years later, in 1986, 99.6 percent of the 39,177 live births occurred in the hospital.

Another factor which may affect both maternal and infant health is whether or not an attendant is present at the time of birth. Unlike the institution of birth, this factor has remained consistent for fifty years. In 1936, 99.7 percent of the births were physicians' deliveries. By 1986, the situation was virtually unchanged--99.5 percent of the births were attended by a physician.

Parental Age

The average maternal age in 1986 was 25.7 years, while the average paternal age was 28.4 years. Figure 7 shows the changing pattern in the distribution of births by maternal age for 1976, 1981 and 1986. The ages from 20 to 24 were the

LIVE BIRTHS: PERCENT DISTRIBUTION
BY AGE GROUP OF MOTHER
KANSAS, 1976, 1981 AND 1986



Residence data

Figure 7

most popular child-bearing ages in 1976 and 1981, but in 1986, the majority of live births were from women ages 25-29. Since about 1970, there has been a gradual downward trend in the proportion of child-bearing women in the 20 to 24 year age group, and a gradual increase in the proportion of child-bearing women between 25 and 34. (Live births by county of maternal residence and age group are shown in Appendix Table 27.)

Birth Weight and Premature Births

Birth weights are classified as low, normal or heavy according to the gram limits outlined in Table 3. Ninety-two percent of the live births in 1986 were of normal weight, between 2,501 and 4,500 grams (5 lbs. 9 ozs. - 9 lbs. 14 ozs.). Babies weighing over 4,500 grams constituted only 1.8 percent of the live births.

Low birth weight, 2,500 grams (5 lbs. 8 ozs.) or less, is the weight category generally considered the most critical in regard to infant survival. This weight category comprises those deliveries herein referred to as premature births. The 2,426 premature births in 1986 accounted for 6.2 percent of all live births. The number of premature births for mothers in each age group, percent distribution and age-specific premature birth ratios (premature births as a percent of all live births within an age group) are shown in Table 3.

The age of the mother is an important factor correlated with the birth weight of the baby. A reliable indicator of the tendency for child-bearing women in a particular age group to have premature births is the age-specific premature birth ratio. In 1986, the largest age-specific premature birth ratio was 9.4 percent of the births for mothers 40-44 years of age followed by 8.8 percent of the births for mothers 15-19 years of age. Mothers 25-29 years of age accounted for the largest percentage (33.3) of all live births, but the largest percentage (32.8) of premature births was to mothers ages 20-24. Over thirty (30.2) percent of the premature births were to mothers 25-29 years of age.

Out-of-Wedlock Births

In 1986, there were 6,549 out-of-wedlock births to Kansas residents, reflecting a 12.6 percent increase over the 1985 total of 5,818. These out-of-wedlock births represented 16.7 percent of all live births in 1986.

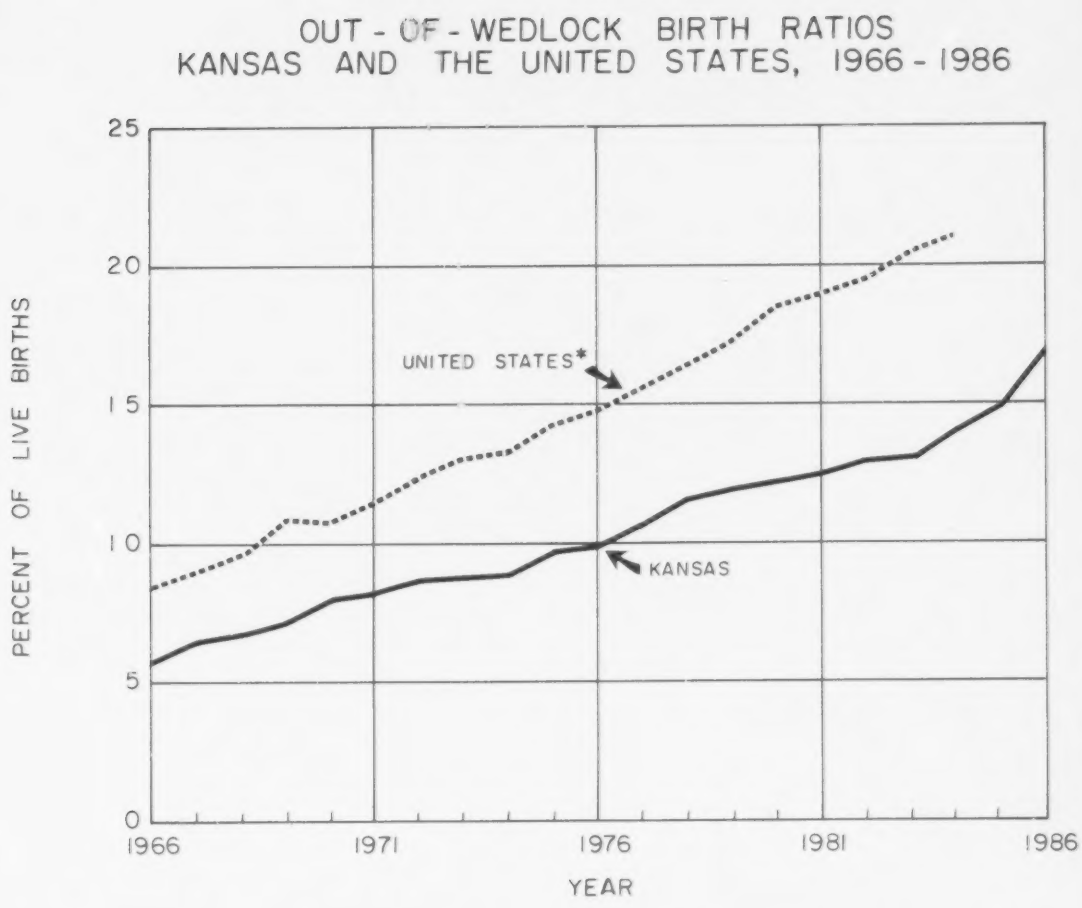
Although the out-of-wedlock birth ratio in Kansas was below the national ratio from 1966 to 1986 (Figure 8), the increasing trend in the out-of-wedlock birth ratio in Kansas was similar to the upward trend throughout the United States during this period.

The number of out-of-wedlock births to mothers in each age group in 1986, percent distribution and age-specific out-of-wedlock birth ratios, or the out-of-wedlock births as a percent of all live births within an age group, are shown in Table 3. (Out-of-wedlock births by maternal county of residence by maternal age group are given in Appendix Table 28.)

Table 3
Live Births by Age Group of Mother, by Selected Characteristics
Kansas, 1986

Age Group of Mother	Total	Selected Characteristics of Live Births									
		Birth Weight (Grams)				Premature Births			Out-of-Wedlock Births		
		Under 2,501 (Low)	2,501 - 4,500 (Normal)	Over 4,500 (Heavy)	Not Stated	Number	Percent	Age-Specific Ratio	Number	Percent	Age-Specific Ratio
All Ages.....	39,177	2,426	36,033	710	8	2,426	100.0	...	6,549	100.0	...
10-14.....	73	9	64	-	-	9	0.4	*	71	1.1	*
15-19.....	4,417	390	3,983	43	1	390	16.1	8.8	2,342	35.8	53.0
20-24.....	12,657	795	11,676	183	3	795	32.8	6.3	2,491	38.0	19.7
25-29.....	13,034	734	12,059	238	3	734	30.2	5.6	1,101	16.8	8.4
30-34.....	6,901	348	6,374	178	1	348	14.3	5.0	381	5.8	5.5
35-39.....	1,852	128	1,666	58	-	128	5.3	6.9	137	2.1	7.4
40-44.....	235	22	203	10	-	22	0.9	9.4	25	0.4	10.6
45 and Over....	6	-	6	-	-	-	-	*	-	0.0	*
Not Stated.....	2	-	2	-	-	-	-	-	1	-	-

Residence data.



* 1985 and 1986 data from the National Center for Health Statistics was not available at the time of publication.

Residence data.

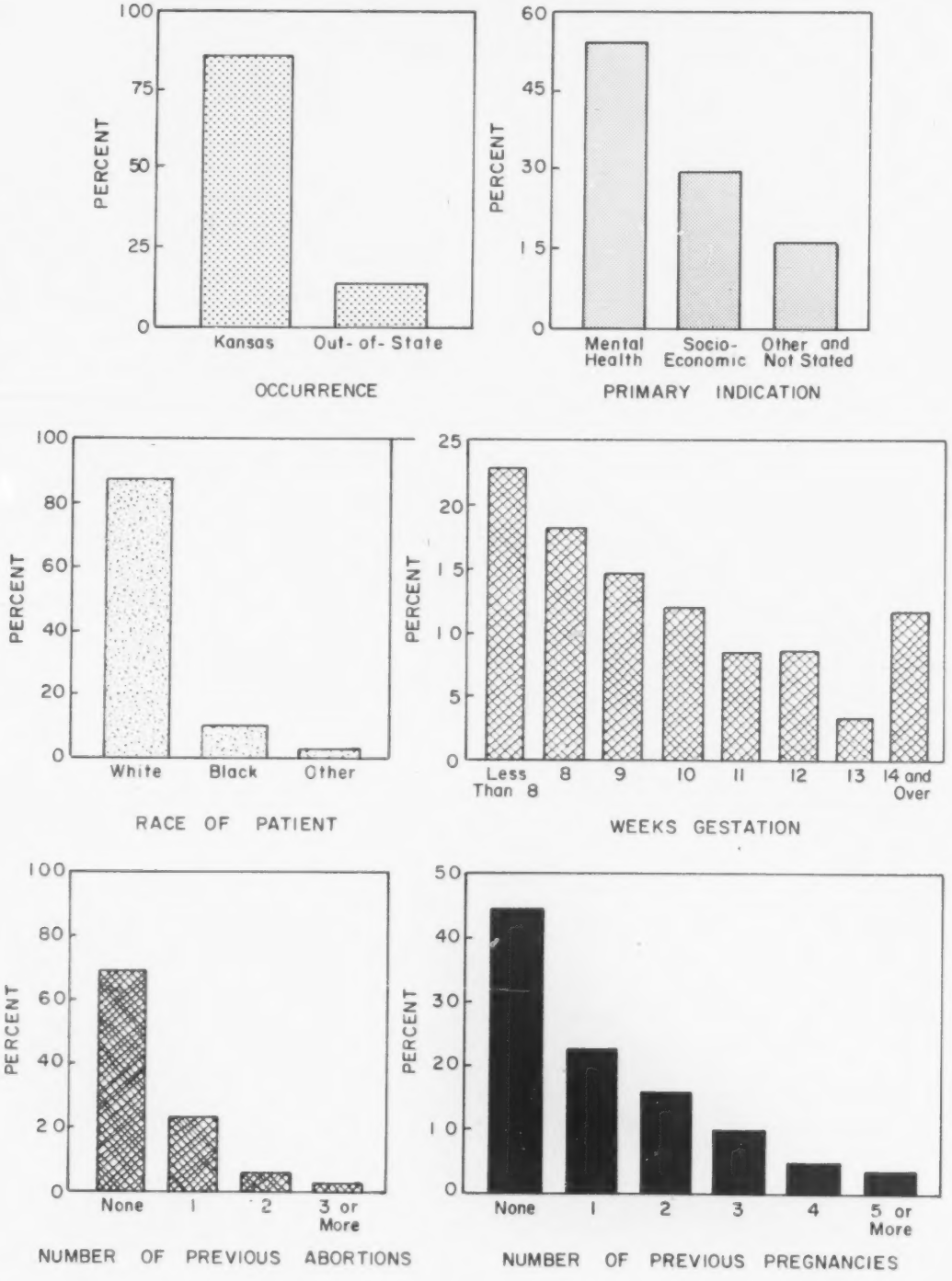
Figure 8

Of the total number of live births to mothers under 20, over half (53.7 percent) were out-of-wedlock. Further, of the out-of-wedlock live births, 36.9 percent were to mothers under 20.

Examining age-specific out-of-wedlock birth ratios reveals that 53.0 percent of the births to mothers 15 to 19 years of age were out-of-wedlock in 1986. The ratio dropped to 19.7 percent with the next age group, 20-24 years.

BIRTH-RELATED MORTALITY

REPORTED INDUCED ABORTIONS BY SELECTED CHARACTERISTICS, KANSAS, 1986



Residence data.

Figure 9

BIRTH-RELATED MORTALITY

This section examines mortality as it relates to pregnancy, childbirth, and infancy. For discussion purposes it is presented in five subdivisions: (1) induced abortions; (2) fetal deaths (stillbirths); (3) perinatal period III mortality; (4) infant deaths; and (5) maternal deaths.

INDUCED ABORTIONS

The Kansas liberalized abortion law was enacted in July, 1970, and from that time through 1986, 180,595 abortions were reported in Kansas. There were 8,922 abortions reported in Kansas in 1986.

The number of abortions reported in Kansas from 1971 to 1986 is shown below. The decline in the number of abortions reported in Kansas in 1974 and 1975 is largely attributable to the reduction in the number of out-of-state residents having abortions performed in Kansas since the 1973 United States Supreme Court ruling which legalized abortion in all states. The number of abortions reported in Kansas in 1986 represented a 4.4 percent decrease from the 1985 total of 9,333.

Number of Abortions Reported in Kansas by Year

Year	Number
1986	8,922
1985	9,333
1984	9,754
1983	9,844
1982	11,107
1981	12,137
1980	13,381
1979	13,901
1978	10,904
1977	10,898
1976	11,597
1975	10,860
1974	10,871
1973	12,612
1972	12,248
1971	9,472

Summary statistics are available only for those 6,561 abortions reported by hospitals and clinics participating in our abortion reporting system during 1986, regardless of where the abortion occurred.

In 1986, 3,658 abortions, or 61.2 percent, of the 5,974 that occurred in the State, were performed for Kansas residents. Of the 2,316 nonresidents who had abortions in Kansas, 93.8 percent (2,173) were Missouri residents. Residents from other states included those from Nebraska (43), Oklahoma (42) and Iowa (24). Thirty-four patients represented other states.

Kansas Residence Summary:

The following analysis refers to the 4,245 abortions reported for Kansas residents, regardless of where the abortion occurred.

Occurrence: In 1986, the Kansas Department of Health and Environment received statistics on 587 abortions performed in other states for Kansas residents. Of those 587 abortions, 513 (87.4 percent) occurred in Missouri, 59 (10.1 percent) occurred in Oklahoma, and 10 (1.7 percent) occurred in Nebraska.

Age of Patient: Most reported abortions were performed in the 15-19 and 20-24 age groups. Enumerated below is the number of abortions by age group of patient, percent distribution and age-specific abortion ratios (number of abortions reported per thousand live births for a given age group.) Induced abortions by county of residence and age group of patient in 1986 are given in Appendix Table 29.

Abortions: Distribution by Age Group of Patient and Age-Specific Ratios

Age Group	Number	Percent	Ratio**
Total	4,245	100.0	...
10-14.	28	0.7	*
15-19.	1,217	28.7	275.5
20-24.	1,467	34.6	115.9
25-29.	840	19.8	64.4
30-34.	420	9.9	60.9
35-39.	226	5.3	122.0
40-44.	40	0.9	170.2
45 and Over . .	3	0.1	*
N.S.	4	...	...

**Age-specific abortion ratios are expressed as the number of abortions per 1,000 live births for a given age group.

Residence data.

Race: Most of the abortion patients, 87.7 percent (3,694), in 1986 were white as shown in Figure 9. Black patients represented 9.9 percent (418), and other races constituted 2.4 percent (102). Race was not stated in 31 cases.

Marital Status of Patient: Of the 4,245 abortion patients residing in Kansas in 1986, 3,350, or 79.5 percent, were not married; 862, or 20.5 percent, were married and 33 patients did not report their marital status.

Number of Previous Abortions: In 1986, 2,930, or 69.2 percent, of the patients had no previous abortions. Almost twenty-three (22.7) percent, or 961, had one previous abortion, 5.9 percent (247) had two previous abortions, and 2.2 percent (94) had three or more previous abortions. In 13 cases the number of previous abortions was not stated.

Number of Previous Pregnancies: Forty-four percent (1,861) of the patients reported no previous pregnancies, and 22.5 percent (952) reported one previous pregnancy. Over fifteen (15.4) percent (649) had two previous pregnancies, 18.1 percent (770) reported three or more previous pregnancies, and 13 patients did not report the number of previous pregnancies.

Method of Abortion: Ninety-eight percent (4,160) of the abortions were performed by suction curettage. Sharp curettage was utilized in 6 cases, intra-uterine-prostaglandin instillation was performed in 2 cases, and in 77 cases other methods were used.

Weeks Gestation: Most abortions (88.2 percent) were performed within the first three months of pregnancy, or prior to the fourteenth week of gestation. Only 497, or 11.8 percent, were performed later than the thirteenth week after conception, while 22 cases did not state weeks gestation.

FETAL DEATHS (Stillbirths)

There were 242 fetal deaths recorded for Kansas residents in 1986, representing an 11.7 percent decrease from the 1985 total of 274. The fetal death rate in 1986 was 6.1 per 1,000 total births, a decrease of 11.6 percent from the 1985 rate of 6.9. The fetal death rate has declined by 40.2 percent from the decade high of 10.2 in 1976. (Table 30 in the Appendix shows the number of fetal deaths by county of residence in 1986.)

Cause of Death: In 1986, 16.9 percent of the fetal deaths were attributable to placental separation and hemorrhage (41). Other common causes of fetal deaths were: compression of umbilical cord (40), extreme immaturity (18), abnormalities of the placenta (16), asphyxia or anoxia (12), and unspecified conditions of umbilical cord (11). (Intentionally aborted fetuses that weigh more than 350 grams are not included as fetal deaths in this report.)

Maternal Age: Most fetal deaths involved women ages 25-29 as indicated in the table below, but this age group was also associated with low risk, a fetal death ratio of 5.6. The greatest risk involved the 15-19 age group with a fetal death ratio of 8.8.

Fetal Deaths: Distribution by Age Group of Mother and Age-Specific Ratios

Age Group	Number	Percent	Ratio**
Total	242	100.0	6.2
10-14	2	0.8	*
15-19	39	16.1	8.8
20-24	68	28.1	5.4
25-29	73	30.2	5.6
30-34	43	17.8	6.2
35-39	14	5.8	7.6
40-44	2	0.8	8.5
45 and Over	1	0.4	*

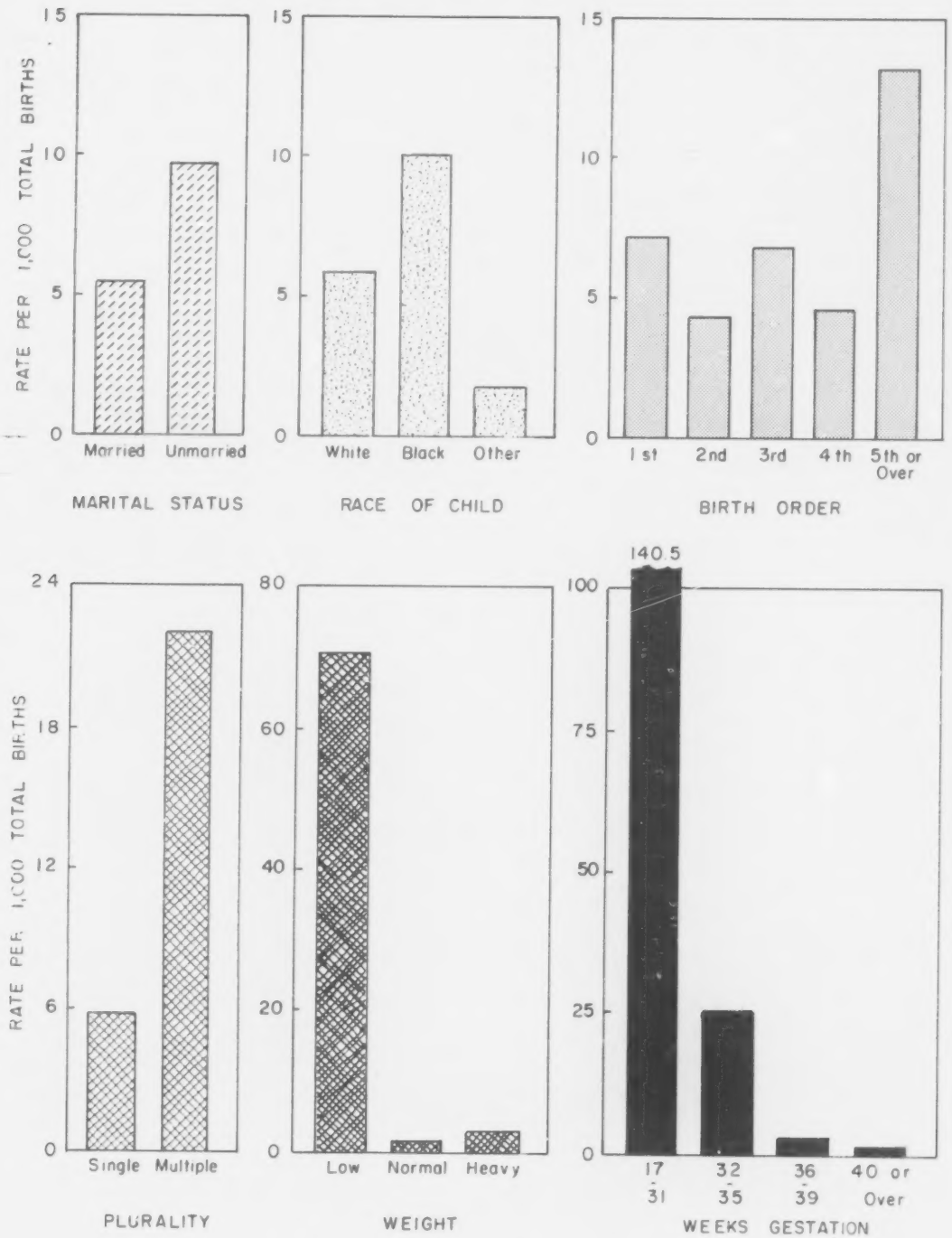
**Age-specific fetal death ratios are expressed as the number of fetal deaths per 1,000 live births for a given age group.

Residence data.

Other Characteristics: A slightly higher proportion of the 1986 fetal deaths was male (52.4 percent) compared to 51.6 percent male-live births. Almost twenty-seven (26.7) percent of the fetal deaths in 1986 were from out-of-wedlock pregnancies, but Figure 10 shows that the fetal death rate was significantly higher when women were not married.

While 88.1 percent of the infants born in 1986 were white, 84.7 percent of the fetal deaths involved women of this race. Figure 13 illustrates that the highest fetal death rate (10.0) was for blacks and the lowest was for other non-white races (1.7).

FETAL DEATH RATES BY SELECTED CHARACTERISTICS KANSAS, 1986



Residence data

Figure 10

The fetal death rate was greatest for fifth or over birth orders (13.2), and the next highest risk was to first births (7.1). Almost half (44.2 percent) of the fetal deaths occurred with first births.

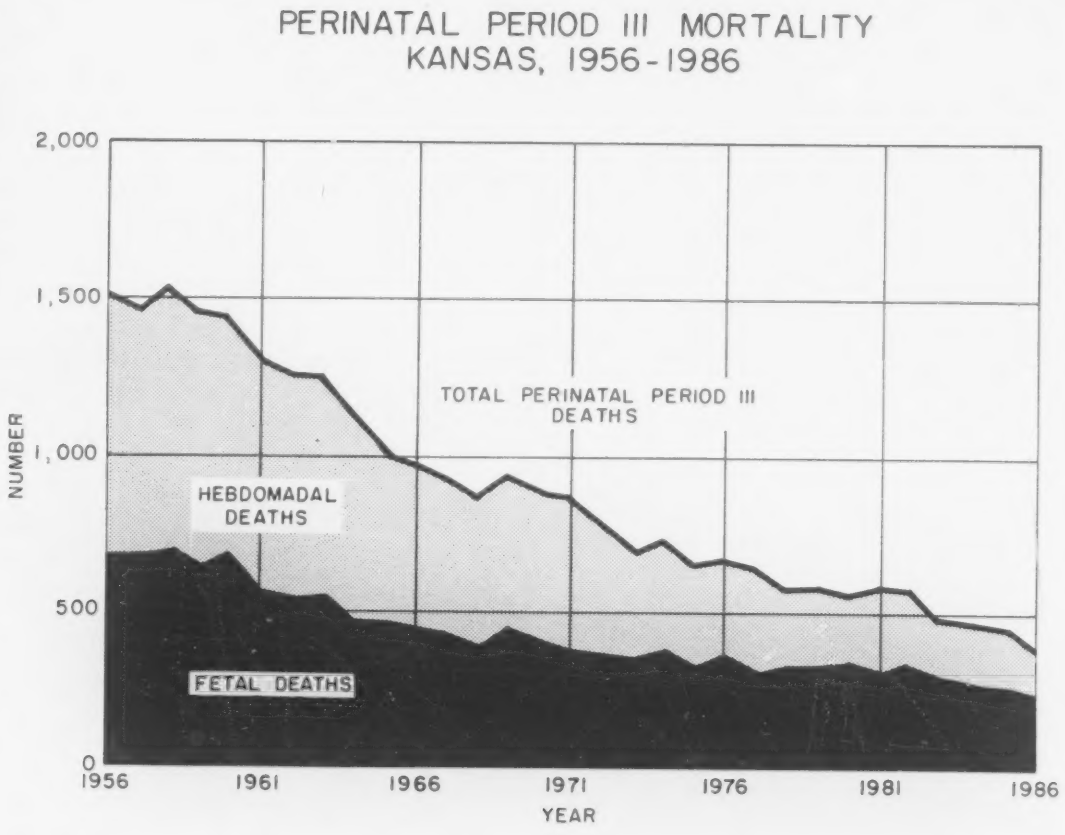
Only 8.3 percent of the fetal deaths were from pregnancies with more than one fetus, but the fetal death rate (22.1) for plural deliveries was nearly four times the single rate (5.8).

Fetuses weighing between 351 and 2,000 grams (12.4 oz. to 4 lb. 6 oz.) constituted 66.9 percent of the fetal deaths in 1986. Over three-fourths (77.4) of all fetal deaths weighed less than 2,501 grams (5 lb. 8 oz.). The death rate for these low-weight fetuses was 70.9 per 1,000 total births.

Nearly half (46.5 percent) of the fetal deaths occurred before the 32nd week of gestation. As can be seen in Figure 10, the fetal death rate during this time is more than five times the rate at 32 to 35 weeks gestation.

PERINATAL PERIOD III MORTALITY

Perinatal period III mortality refers to the aggregated total of fetal deaths and hebdomadal deaths (deaths that occur prior to the 7th day of life). Since 1956 there has been a general downward trend in the perinatal period III deaths rate from 28.0 per 1,000 total births in 1956 to 10.0 in 1986. A graphic representation of perinatal period III mortality occurring between 1956 and 1986 is presented in Figure 11.



Residence data

Figure 11

Table 4
Perinatal Period III Mortality
Kansas, Selected Years, 1956-1986

Year	Fetal Deaths*	Hebdomadal Deaths	Perinatal Period III Deaths	
			Number	Rate**
1986	242	153	395	10.0
1985	274	184	458	11.5
1984	277	200	477	11.9
1983	296	202	498	12.2
1982	336	234	570	13.9
1981	316	264	580	14.0
1980	340	226	566	13.8
1979	330	260	590	15.0
1978	331	254	585	15.8
1977	308	335	643	17.3
1976	364	310	674	18.9
1975	341	304	645	18.9
1974	379	354	733	22.2
1973	355	342	697	21.6
1972	375	410	785	23.4
1971	380	506	886	24.4
1966	455	522	977	26.7
1961	555	763	1,318	26.1
1956	673	832	1,505	28.0

*Criteria for reporting fetal deaths changed from twenty weeks gestation to a fetal weight of more than 350 grams in 1963.

**Rate per 1,000 total births.

Residence data.

Examining the components that constitute perinatal period III mortality in Table 4, both the numbers of fetal deaths and hebdomadal deaths declined during the 1956 to 1986 period. Fetal deaths accounted for 64.0 percent fewer deaths in 1986 than they did in 1956 and hebdomadal deaths decreased by 81.6 percent. (Perinatal period III deaths by county of residence are given in Appendix Table 30.)

INFANT DEATHS

An infant death is defined as the death of a liveborn infant under one year of age. Below are the major components or stages of infancy that constitute the first year of life, and deaths which occur during that time are hereafter classified in a like manner.

Hebdomadal deaths - occur prior to the seventh day of life.

Post-hebdomadal deaths - occur from 7 through 27 days after birth.

Neonatal deaths - occur prior to the twenty-eighth day of life.

Post-neonatal deaths - occur after 27 days but prior to one year after birth.

These stages overlap in that neonatal deaths represent the total number of hebdomadal and post-hebdomadal deaths. Infant deaths are the sum of neonatal deaths and post-neonatal deaths.

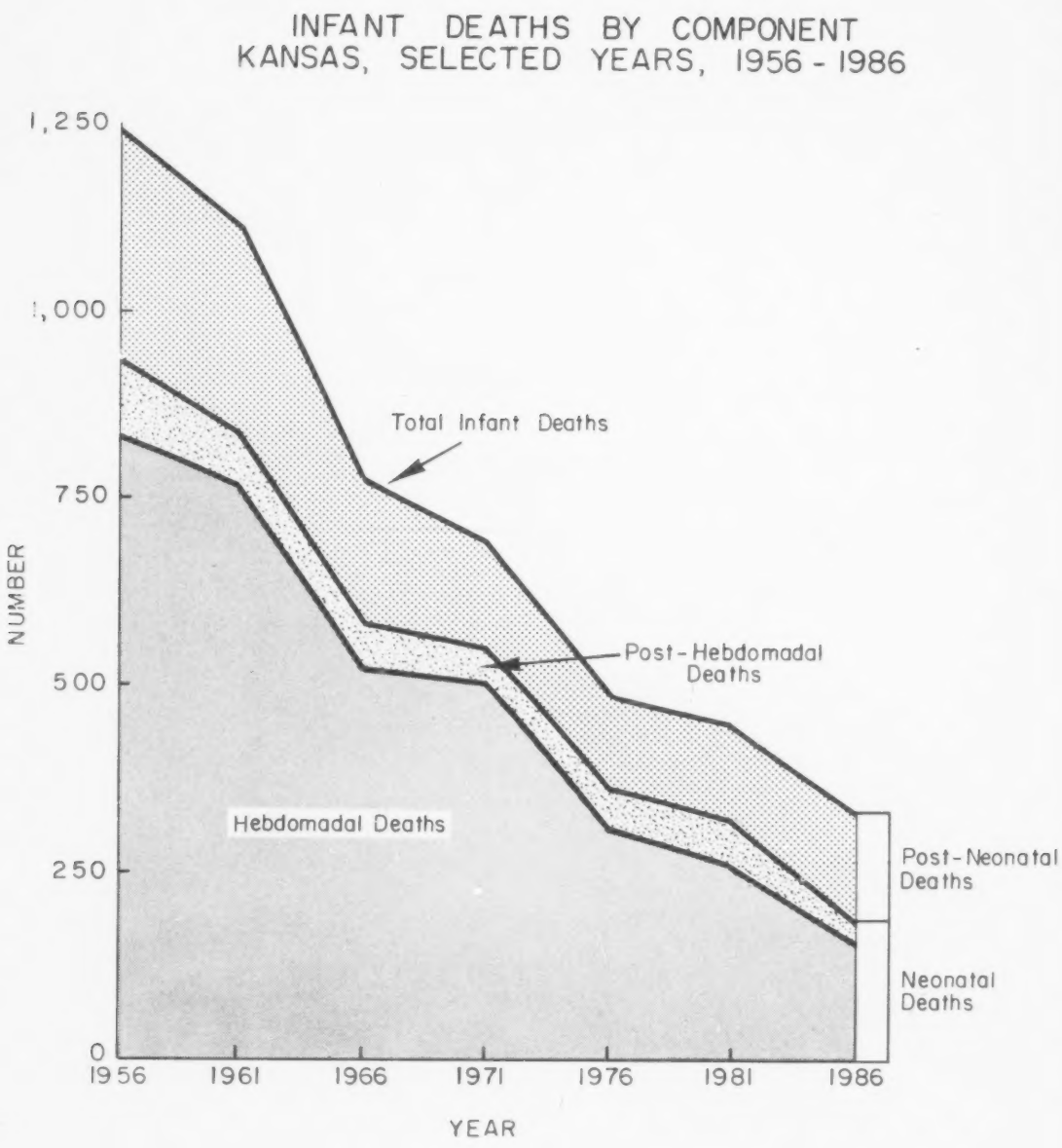
In 1986, there were 337 infant deaths in Kansas. The number of infant deaths, as graphically presented in Figure 12, declined 73.0 percent from 1956 to 1986. Expressed as a rate per thousand live births, infant deaths dropped from 23.5 in 1956 to 8.6 in 1986, the lowest rate on record. By comparison, the estimated infant mortality rate for the United States was 10.4 in 1986. The component stages of infant deaths, neonatal deaths (including the hebdomadal and post-hebdomadal periods) and post-neonatal deaths declined in Kansas in a somewhat parallel manner during the 1956-1986 time period with the margin between the two narrowing slightly in later years. Neonatal deaths totaled 931 in 1956 compared to 190 in 1986, a 79.6 percent decline. Post-neonatal deaths concurrently dropped by 53.3 percent from 315 in 1956 to 147 in 1986. (Table 31 in the Appendix shows the number of infant deaths by components and county of residence in 1986.)

Cause of Death: "Congenital anomalies" was the most common cause of infant death and accounted for 78 or 23.1 percent of all infant deaths. "Sudden infant death syndrome" represented 69 or 20.5 percent of all infant deaths and was the second leading cause. All causes of infant death by age group are listed in Table 5.

Sex: Males accounted for 58.2 percent of the 1986 infant deaths. The sex-specific-death rate for males was 9.7 compared to 7.4 for females in 1986.

Age: More than one-third (34.4 percent) of the 1986 infant deaths occurred within 24 hours following birth, 22.0 percent of the infants were between one and 27 days old at the time of death, and 43.6 percent died 28-364 days after birth.

Race: White infants accounted for 84.0 percent of the deaths in 1986, blacks comprised 14.2 percent and other races represented 1.8 percent. Since 1956, both black and white infant death rates have decreased more than 50 percent, but a wide gap persists between the race-specific rates, as Figure 13 illustrates. The 1986 black infant death rate was 13.9, while the white rate was 8.2.



Residence data.

Figure 12

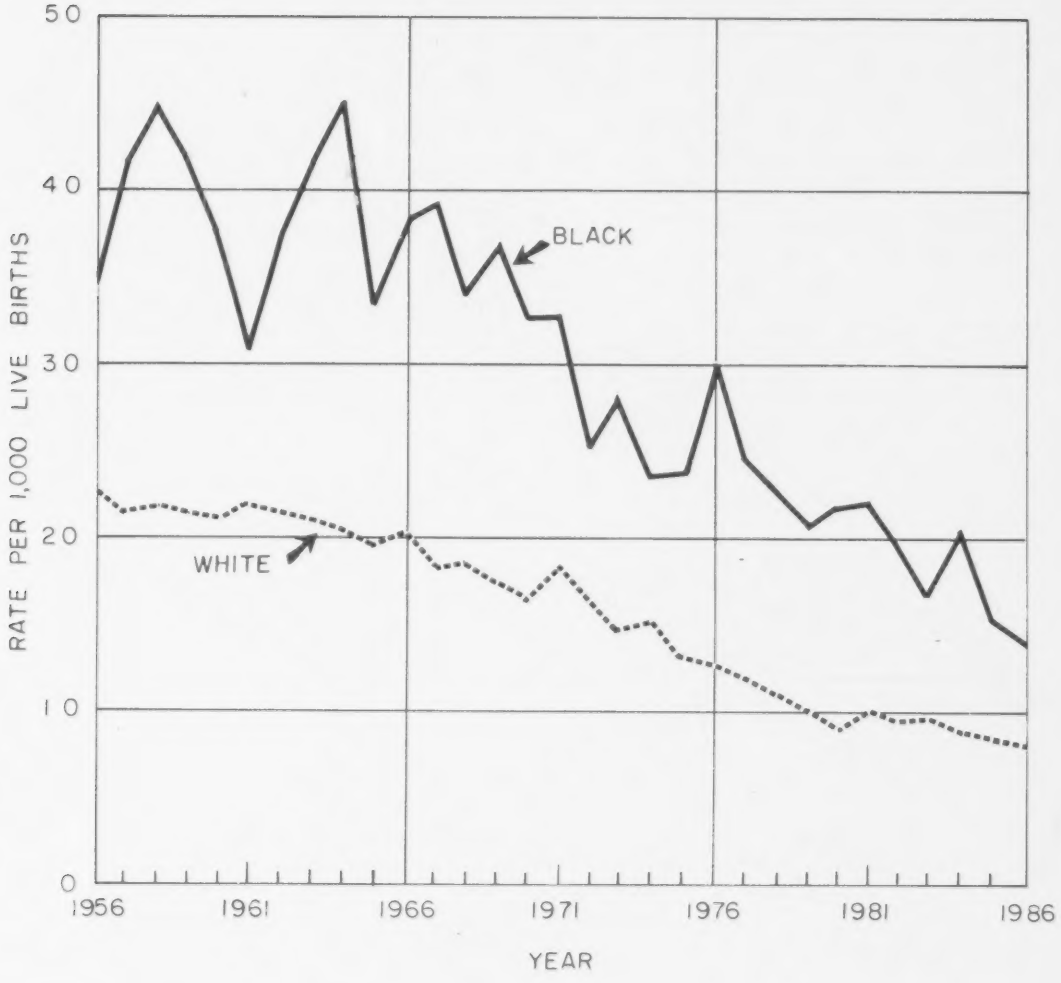
Table 5
Infant Deaths by Cause of Death and Age Group of Infant
Kansas, 1986

Cause of Death (ICD Code)	Age Group of Infant						
	Under 1 day	1-6 days	Under 7 days[a]	7-27 days	Under 28 days[b]	28-364 days	Under 1 year
All Causes	116	37	153	37	190	147	337
Infectious and Parasitic Diseases (001-139)	-	-	-	1	1	8	9
Other Diseases and Disorders (140-739)	1	3	4	2	6	43	49
Congenital Anomalies (740-759)	36	14	50	14	64	14	78
Certain Conditions Originating in the Perinatal Period (760-779)	78	20	98	16	114	5	119
*Maternal Conditions of Pregnancy and Childbirth (760-761, 763-764)	7	1	8	-	8	-	8
*Complications of Placenta, Cord and Membranes (762)	8	-	8	1	9	-	9
*Immaturity (765)	25	1	26	-	26	-	26
*Birth Trauma (767)	-	-	-	-	-	-	-
*Hypoxia and Birth Asphyxia (768)	3	-	3	1	4	1	5
*Respiratory Distress Syndrome and Other Respiratory Conditions (769-770)	17	12	29	7	36	2	38
*Infections Specific to Perinatal Period (771)	5	3	8	3	11	1	12
*Fetal and Neonatal Hemorrhage (772)	-	1	1	-	1	-	1
*Other (773-779)	13	2	15	4	19	1	20
Symptoms and Ill-defined Conditions (780-799)	1	-	1	4	5	65	70
*Sudden Infant Death Syndrome (798)	-	-	-	4	4	65	69
*Other (780-797, 799)	1	-	1	-	1	-	1
External Causes of Injury and Poisoning (E800-E999)	-	-	-	-	-	12	12

[a] Hebdomadal Deaths
[b] Neonatal Deaths

Residence data.

INFANT DEATH RATES BY RACE
KANSAS, 1956 - 1986*



* In previous years the race of the infant was based on the race of the mother as shown on the live birth certificate, whereas, in 1986, the race of the infant was based on both the race of the mother and father.

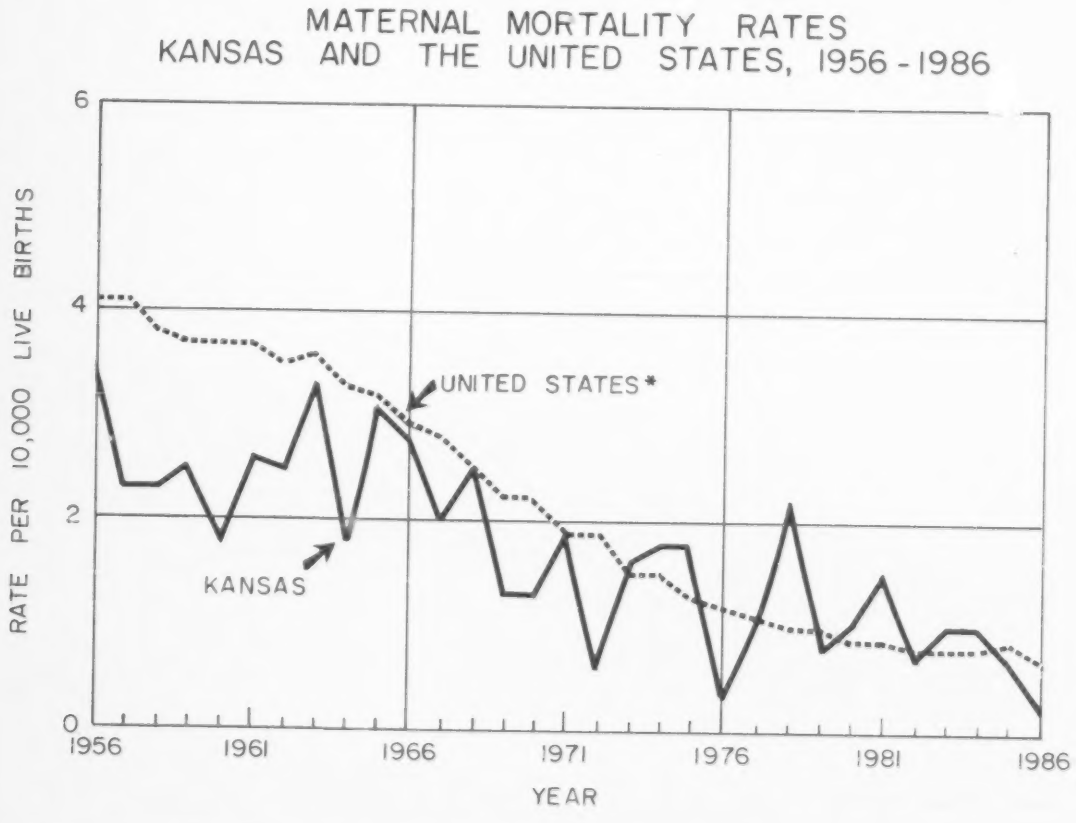
Residence data

Figure 13

MATERNAL DEATHS

Maternal deaths are those attributable to complications of pregnancy, childbirth or the puerperium based on the certified cause of death listed on the death certificate.

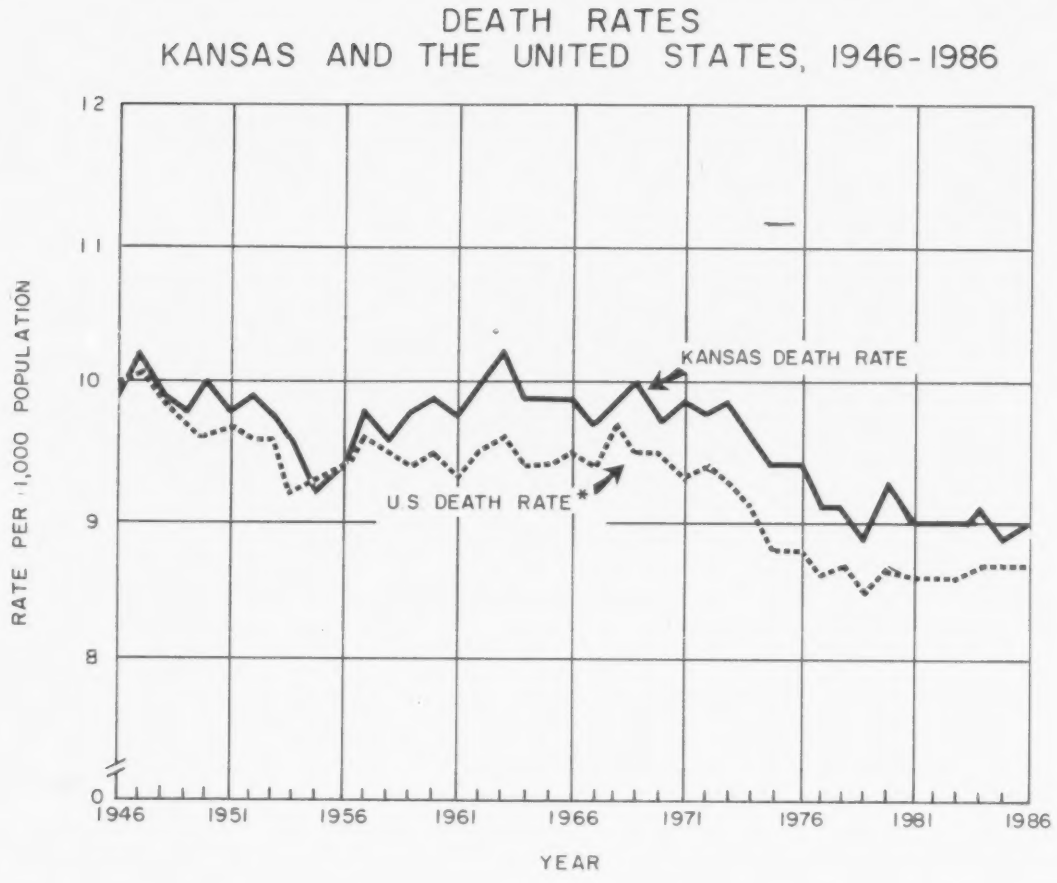
During 1986, one maternal death occurred to a Kansas resident. Maternal mortality rates, expressed as the number of maternal deaths per ten thousand live births, for Kansas and the nation declined considerably between 1956 and 1986, as illustrated in Figure 14. The U.S. rate declined steadily, but the Kansas rate fluctuated due to the small numbers of annual maternal deaths. Overall, the rate of maternal deaths in Kansas was generally below that of the United States during the period. The maternal death rate for Kansas in 1986 was 0.3, a 91.2 percent decrease from the 1956 maternal death rate of 3.4.



*1985 and 1986 maternal mortality rates represent provisional data from the National Center for Health Statistics

Figure 14

GENERAL MORTALITY



* 1984-1986 United States death rates represent provisional data from the National Center for Health Statistics.

Residence data

Figure 15

DEATHS

A total of 22,133 resident deaths was recorded during 1986, representing a 1.5 percent increase over the 21,808 deaths recorded in 1985. The Kansas death rate in 1986 was 9.0 per thousand population and was 3.4 percent higher than the estimated national death rate of 8.7 (Figure 15). During the 1966-1986 period, the Kansas rate has been on the average 4.7 percent higher than the national rate. It should be noted however, that the age distribution of the population has a significant bearing on the level of the crude death rate, and the percentage of the population 65 years and older is higher in Kansas than for the nation as a whole. On this basis, plus the observed higher than average life expectancy of Kansas residents, it seems likely that the death rate in Kansas compares favorably with the national rate.

Death rates by county of residence for 1986 are shown in Figure 16. Riley County had the lowest rate, 4.1 per 1,000 population, while Lincoln County had the highest death rate, 19.5. The difference in age distribution of the county population, as well as chance fluctuations when relatively small numbers are involved, should be taken into account when making county-level crude death rate comparisons. (The number of deaths and respective rates for 1982-1986 on a county of residence basis are given in Appendix Table 32. Table 37 presents total deaths and rates for selected cities, 1985-1986.)

Age, Race and Sex of Decedent

The average age at death of Kansas residents in 1986 was 72.3 years. As illustrated in Figure 17, 48 counties had an average age at death of 75 years or more. (The number of deaths by age group and average age at death by county of residence are given in Appendix Table 33.)

Ninety-five (94.8) percent of the Kansas decedents in 1986 were white, 4.8 percent were black, and less than one percent were of other races. The average age at death for the white population was 72.9, nearly ten years older than that of the black population, whose average age at death was 63.0. Excepting the 1-4 age group and the two oldest age groups, male deaths exceeded female deaths by a considerable margin. The distribution of 1986 Kansas resident deaths by age group, race, sex and average age at death is presented in Table 6.

Leading Causes of Death

The Kansas Department of Health and Environment has been utilizing the Automated Classification of Medical Entities (ACME) System on death certificates since January, 1980. This software system, developed by the National Center for Health Statistics (NCHS), determines the underlying (or principal) cause of death using multiple cause of death coding in accordance with the Ninth Revision of the International Classification of Diseases, (ICD) published by the World Health Organization. Thus, the coder no longer selects the underlying cause but assigns a code to all causes of death listed on the death certificate and then the underlying cause is determined through a computerized set of decision rules.

DEATH RATES BY COUNTY OF RESIDENCE
KANSAS, 1986

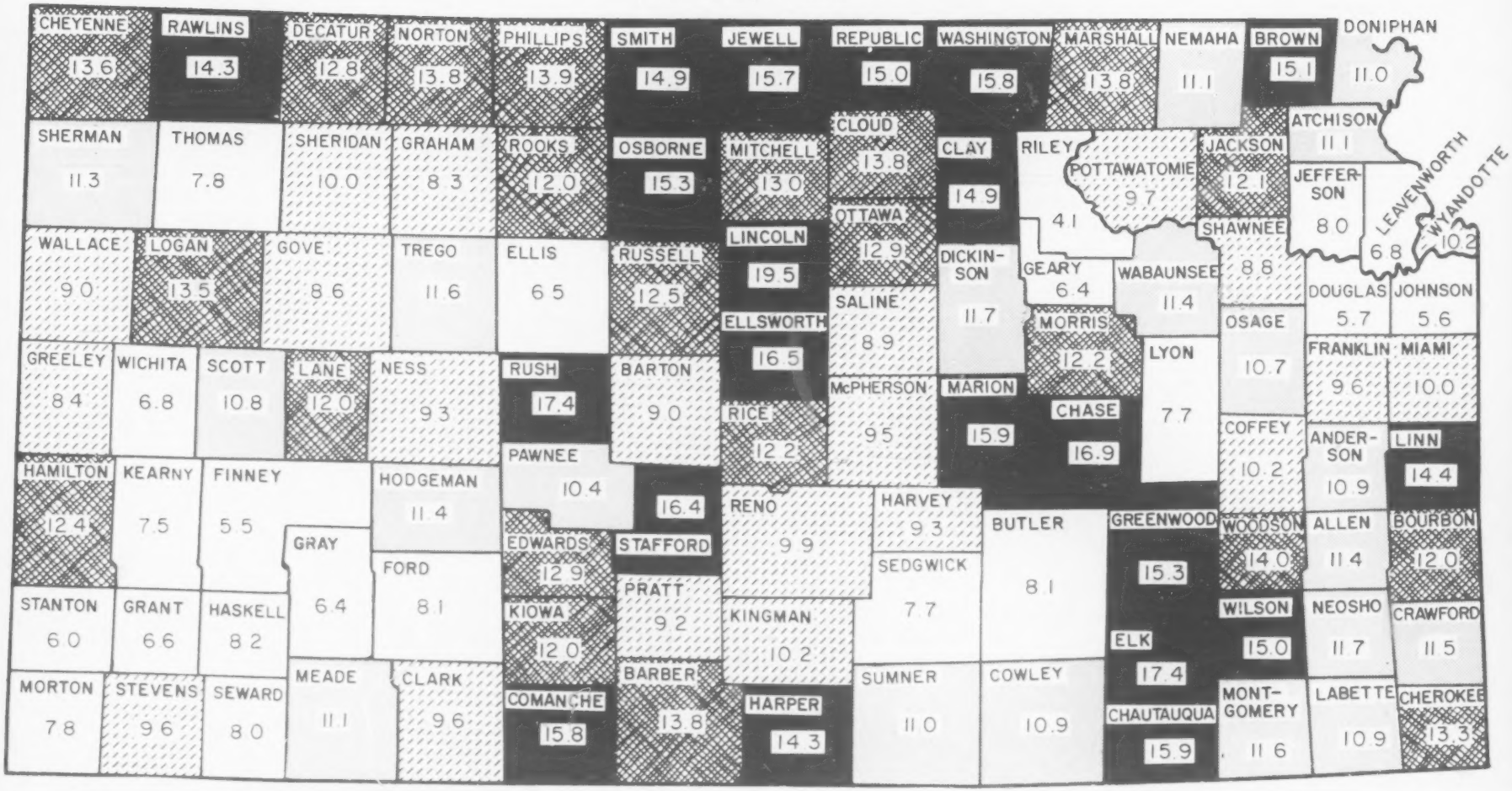
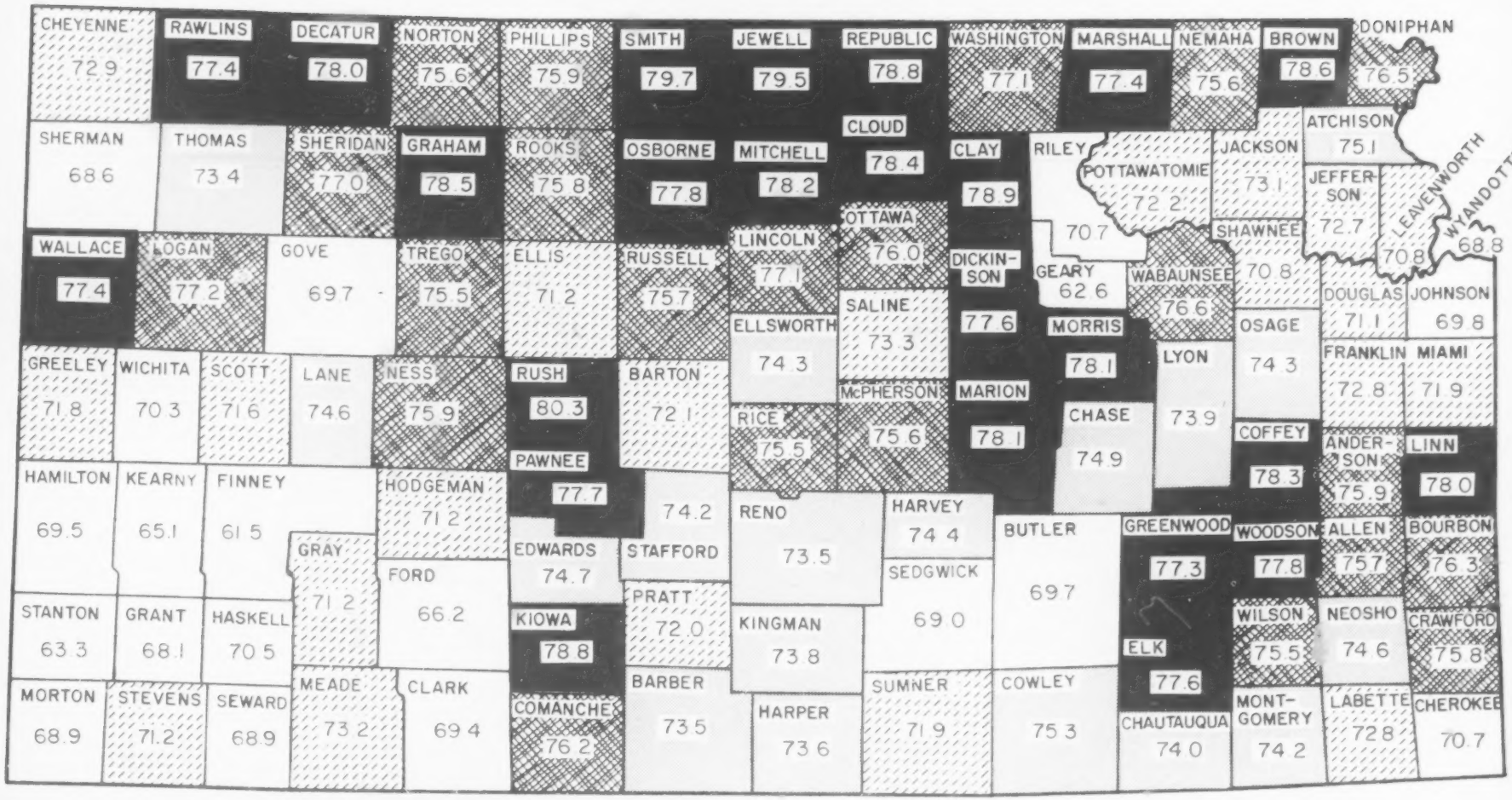


Figure 16

AVERAGE AGE AT DEATH
BY COUNTY OF RESIDENCE, KANSAS, 1986



STATE AVERAGE 72.3

Figure 17

Table 6
Deaths by Race and Sex, by Age Group and Average Age at Death
Kansas, 1986

Race and Sex	Total	Age Group												
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.	Average Age at Death
All Races.....	22,133	337	88	102	354	424	503	927	2,457	4,643	6,447	5,849	2	72.3
Male.....	11,241	196	50	65	260	305	305	604	1,529	2,761	3,211	1,954	1	68.7
Female.....	10,892	141	38	37	94	119	198	323	928	1,882	3,236	3,895	1	76.0
White.....	20,979	283	68	88	324	363	448	843	2,290	4,416	6,184	5,671	1	72.9
Male.....	10,623	167	41	57	240	263	267	553	1,429	2,630	3,091	1,885	-	69.2
Female.....	10,356	116	27	31	84	100	181	290	861	1,786	3,093	3,786	1	76.6
Black.....	1,060	48	16	13	23	52	47	75	154	211	250	170	1	63.0
Male.....	564	26	7	8	16	37	33	45	95	119	111	66	1	59.8
Female.....	496	22	9	5	7	15	14	30	59	92	139	104	-	66.6
Indian.....	45	2	2	-	1	4	6	3	8	8	6	5	-	55.4
Male.....	27	1	1	-	-	2	4	3	4	6	5	1	-	55.6
Female.....	18	1	1	-	1	2	2	-	4	2	1	4	-	55.2
Other.....	43	4	2	1	6	5	1	6	4	5	6	3	-	45.2
Male.....	23	2	1	-	4	3	-	3	1	3	4	2	-	47.4
Female.....	20	2	1	1	2	2	1	3	3	2	2	1	-	42.6
Not Stated.....	6	-	-	-	-	-	1	-	1	3	1	-	-	65.5
Male.....	4	-	-	-	-	-	1	-	-	3	-	-	-	63.3
Female.....	2	-	-	-	-	-	-	-	1	-	1	-	-	70.0

Residence data.

This discussion is not exhaustive of all causes of death of Kansas residents, rather it highlights the major causes in terms of numbers of deaths from particular causes. Table 7 presents selected causes of death by age group of Kansas residents that died in 1986. (The number of deaths to Kansans from the twenty leading causes of death by county of residence appears in Appendix Table 34.)

The two leading causes of death in Kansas, heart disease and malignant neoplasms, had average ages at death of 77.3 and 70.3, respectively. Atherosclerosis, with an average age at death of 86.5 years, had the highest average age at death of any of the leading causes of death.

Examining the ten leading causes of death for Kansas residents in 1986, Table 8 shows not only the number of deaths attributable to each cause but also the disease-specific death rates and average age at death for males and females. The average age at death for female accident victims was more than ten years greater than that for males who died accidentally. Nearly five times as many males as females died as a result of suicide in 1986. Deaths due to accidents claimed almost twice the number of males as females. Female deaths were predominant for chronic diseases (atherosclerosis, diabetes and cerebrovascular disease) rather than for external causes. Table 9 gives sex and race breakdowns for the ten leading causes of death and Table 10 provides comparisons of deaths for Kansas and the United States for selected leading causes by number and rate for 1986.

Four Leading Causes: Depicted in Figure 18 are the year by year death rate trends for the four leading causes of death from 1946-1986. The rate for heart disease, the number one cause of death in Kansas, rose considerably from 1946 to 1960. After stabilizing somewhat for the next ten years, the heart disease death rate gradually declined to 340.7 in 1981. The 1986 Kansas rate of 326.3 was 2.9 percent higher than the estimated United States rate of 317.2. The heart disease rate among Kansas men was 333.6 per 100,000 population in 1986 compared to 319.3 among the female population (Table 8). The male victims of fatal heart disease averaged more than seven years younger than female victims!

Cancer was the second-leading cause of death in Kansas in 1986, rising from 139.7 deaths per 100,000 population in 1945 to 187.9 in 1983. The 1986 Kansas rate (188.9) was 2.3 percent lower than the estimated United States rate of 193.4 per 100,000 population. The incidence of terminal cancer was higher for men than for women, as evidenced by the death rates of 203.7 for males and 174.8 for females (Table 8).

Kansas death rates for cerebrovascular disease, the number three cause of death in 1986, remained between 107.3 and 137.0 from 1946 to 1975. However, the rate dropped to 95.7 in 1976 and 72.1 in 1983. The 1986 Kansas rate of 69.0 was 12.7 percent higher than the estimated United States rate of 61.2. Comparing the number of male and female victims in 1986, 61.9 percent were females and the sex-specific rate was 83.5 for females and 53.8 for males.

Table 7
Selected Causes of Death by Age Group
And Average Age at Death
Kansas, 1986

Selected Causes of Death (ICD Code)	Total	Age Group												
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.	Average Age at Death
All Causes	22,133	337	88	102	354	424	503	927	2,457	4,643	6,447	5,849	2	72.3
Selected Causes	19,035	117	64	89	316	360	428	805	2,193	4,122	5,624	4,917	-	n.a.
Tuberculosis (010-018)	10	-	-	-	-	-	-	-	1	2	5	2	-	77.4
Malignant Neoplasms (140-208)	4,653	1	4	13	11	35	118	291	865	1,455	1,279	581	-	70.3
Diabetes Mellitus (250)	365	-	-	-	2	3	8	23	44	89	125	71	-	73.3
Hypertension (401, 403)	76	-	-	-	-	-	-	2	6	18	28	22	-	77.6
Heart Disease (390-398, 402, 404-429)	8,037	14	2	3	9	30	92	252	818	1,631	2,586	2,600	-	77.3
Cerebrovascular Disease (430-438)	1,699	2	-	-	4	6	17	30	95	239	627	679	-	80.2
Atherosclerosis (440)	306	-	-	-	-	-	-	-	3	23	88	192	-	86.5
Pneumonia and Influenza (480-487)	868	6	1	4	-	7	5	11	37	111	265	421	-	81.1
Chronic Obstructive Pulmonary Diseases (490-496)	897	1	-	-	-	2	2	23	126	303	313	127	-	73.7
Ulcer of Stomach and Duodenum (531-533)	81	-	-	-	-	-	2	-	6	16	29	28	-	79.2
Chronic Liver Disease and Cirrhosis (571)	176	-	-	-	-	4	13	28	55	47	22	7	-	62.2
Nephritis, Nephrotic Syndrome and Nephrosis (580-589)	243	4	1	-	-	-	3	4	10	44	101	76	-	78.2
Congenital Anomalies (740-759)	125	78	13	5	3	3	2	6	2	6	6	1	-	13.9
Accidents (E800-E949)	1,049	10	34	57	210	171	99	77	79	94	116	102	-	44.9
Suicide (E950-E959)	334	-	-	3	52	62	55	49	39	38	31	5	-	46.0
Homicide and Legal Intervention (E960-E978)	116	1	9	4	25	37	12	9	7	6	3	3	-	33.7

Residence data.

Table 8
Ten Leading Causes of Death by Sex
By Number, Rate and Average Age at Death
Kansas, 1986

Leading Causes of Death (ICD Code)	Number of Deaths			Disease-Specific Death Rate*			Average Age at Death		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
All Causes.....	22,133	11,241	10,892	898.6	933.3	865.4	72.3	68.7	76.1
Heart Disease (390-398, 402, 404-429).....	8,037	4,018	4,019	326.3	333.6	319.3	77.3	73.6	81.0
Malignant Neoplasms (140-208).....	4,653	2,453	2,200	188.9	203.7	174.8	70.3	69.9	70.8
Cerebrovascular Disease (430-438).....	1,699	648	1,051	69.0	53.8	83.5	80.2	77.2	82.0
Accidents (E800-E949).....	1,049	691	358	42.6	57.4	28.4	44.9	41.5	51.7
Chronic Obstructive Pulmonary Diseases (490-496).....	897	582	315	36.4	48.3	25.0	73.7	74.0	73.1
Pneumonia and Influenza (480-487).....	868	382	486	35.2	31.7	38.6	81.1	77.3	84.1
Diabetes Mellitus (250).....	365	152	213	14.8	12.6	16.9	73.3	71.6	74.6
Suicide (E950-E959).....	334	274	60	13.6	22.7	4.8	46.0	45.2	49.8
Atherosclerosis (440).....	306	102	204	12.4	8.5	16.2	86.5	84.5	87.6
Nephritis, Nephrotic Syndrome and Nephrosis (580-589).....	243	119	124	9.9	9.9	9.9	78.2	77.3	79.0

*Rate per 100,000 population.

Note: Rates are based on an estimated distribution of population of 48.9 percent male and 51.1 percent female. This distribution is based upon the "1980 Census of Population and Housing" by the United States Bureau of the Census.

Residence data.

Table 9
Ten Leading Causes of Death by Sex and Race
Kansas, 1986

Sex and Race	Total	Causes of Death										
		Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Accidents	Chronic Obstructive Pulmonary Diseases	Pneumonia and Influenza	Diabetes Mellitus	Atherosclerosis	Suicide	Nephritis, Nephrotic Syndrome and Nephrosis	All Other Causes
Total.....	22,133	8,037	4,653	1,699	1,049	897	868	365	306	334	243	3,682
Male.....	11,241	4,018	2,453	648	691	582	382	152	102	274	119	1,820
White.....	10,623	3,843	2,333	614	631	565	368	138	98	264	112	1,657
Black.....	564	159	114	33	49	16	14	14	3	8	7	147
Indian.....	27	11	3	1	4	-	-	-	1	2	-	5
Other.....	23	3	3	-	7	1	-	-	-	-	-	9
Not Stated..	4	2	-	-	-	-	-	-	-	-	-	2
Female.....	10,892	4,019	2,200	1,051	358	315	486	213	204	60	124	1,862
White.....	10,356	3,843	2,096	998	339	310	476	193	199	59	109	1,734
Black.....	496	164	96	49	12	5	10	20	4	1	15	120
Indian.....	18	7	1	-	5	-	-	-	1	-	-	4
Other.....	20	4	7	4	2	-	-	-	-	-	-	3
Not Stated..	2	1	-	-	-	-	-	-	-	-	-	1

Residence data.

Table 10
Selected Leading Causes of Death by Number and Rate*
Kansas and the United States, 1986

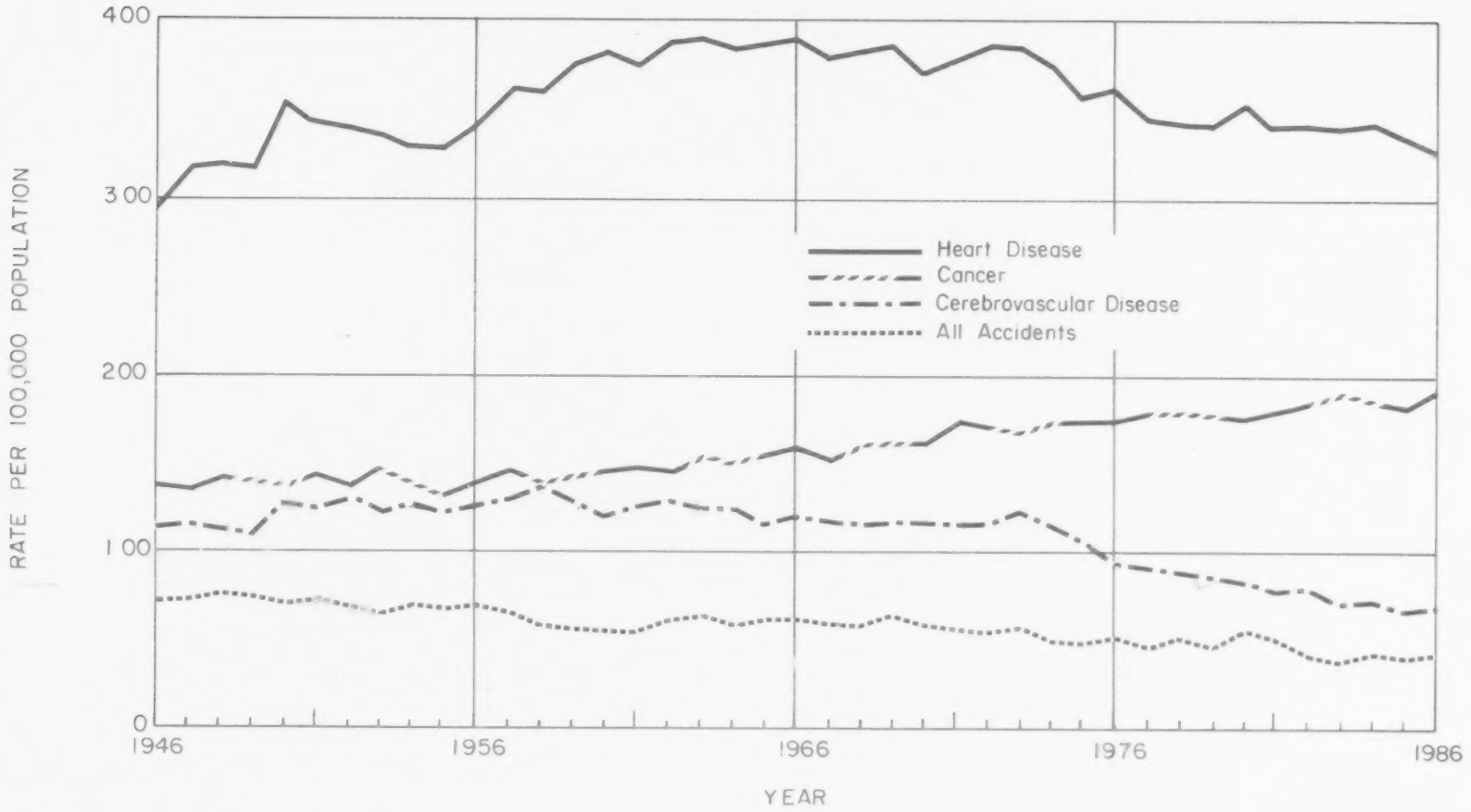
Cause of Death (ICD Code)	Kansas		United States** (Estimates)	
	Number	Rate	Number	Rate
All Causes.....	22,133	898.6	2,095,490	870.8
Heart Disease (390-398, 402, 404-429).....	8,037	326.3	763,380	317.2
Malignant Neoplasms (140-208).....	4,653	188.9	465,440	193.4
Cerebrovascular Disease (430-438).....	1,699	69.0	147,390	61.2
Accidents (E800-E949).....	1,049	42.6	93,990	39.1
Chronic Obstructive Pulmonary Diseases (490-496).....	897	36.4	75,220	31.3
Pneumonia and Influenza (480-487).....	868	35.2	69,250	28.8
Diabetes Mellitus (250).....	365	14.8	36,240	15.1
Suicide (E950-E959).....	334	13.6	30,240	12.6
Atherosclerosis (440).....	306	12.4	22,060	9.2
Nephritis, Nephrotic Syndrome and Nephrosis (580-589).....	243	9.9	21,730	9.0
Aortic Aneurysm (441).....	195	7.9	n.a.	n.a.
Chronic Liver Disease and Cirrhosis (571).....	176	7.1	26,140	10.9
Congenital Anomalies (740-759).....	125	5.1	12,130	5.0
Certain Conditions Originating in the Perinatal Period (760-779).....	122	5.0	17,850	7.4
Homicide and Legal Intervention (E960-E978).....	116	4.7	20,820	8.7

*Rate per 100,000 population.

**United States estimates are from the National Center for Health Statistics and are based on a 10 percent sample.

Residence data.

DEATH RATES FOR LEADING CAUSES OF DEATH
KANSAS, 1946 - 1986



Residence data

Figure 18

Accidental deaths accounted for 4.7 percent of all deaths in Kansas in 1986, making it the fourth-leading cause during the year. The death rate for accidents declined from 72.6 in 1946 to 42.6 in 1986. The 1986 Kansas accidental death rate was 9.0 percent higher than the estimated United States rate of 39.1.

Leading Causes by Age Group: Variations in the most prevalent causes of death by selected age groups are presented in Figure 19. The leading causes of death for each age group are listed in order of magnitude. It is thus noted that in 1986, accidents were the most frequent cause of death for victims between 1 and 44 years of age. Heart disease was more commonly fatal to those persons over 44. Cancer and cerebrovascular disease also claimed more victims of older age groups than of younger ones. Suicide and homicide had the greatest impact upon persons of the 15-24 and 25-44 categories. Pneumonia-influenza was one of the five leading causes of death of persons over 64 years of age. Chronic obstructive pulmonary diseases were more prevalent as a cause of death for persons over 44 years of age.

Heart Disease: The number one cause of death in Kansas, heart disease, claimed 8,037 lives in 1986 and accounted for 36.3 percent of all deaths during the year.

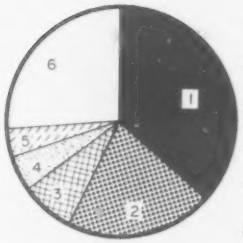
The classifications which constitute heart disease, the number of deaths attributable to each and the respective sex and age group distributions are presented in Table 11.

The most prevalent type of heart disease was ischemic heart disease, which claimed 68.7 percent of all heart disease victims. Ischemic heart disease is a deficiency of blood supply to the heart due to obstruction or constriction of the coronary arteries. Two forms, acute myocardial infarction and other forms of chronic ischemic heart disease, accounted for nearly all ischemic heart disease deaths, 3,021 and 2,468, respectively. Ischemic heart disease was most commonly fatal to persons over 64 years of age, especially those between 75 and 84. The sex distribution for total heart disease victims was identical (50.0 percent), but the sex distributions by age group showed wide variations. For the age groups between 35 and 74, 66.7 percent of the victims were males while for the age group 75 years and over, only 40.8 percent were males.

Cancer: The 4,653 deaths in 1986 caused by cancer, or malignant neoplasms, contributed 21.0 percent to the total number of deaths and represented the second most prevalent cause of death in the State. Over thirty-one (31.3) percent of the victims were between 65 and 74 years of age, and the sex distribution was 52.7 percent males and 47.3 percent females. As depicted in Table 12, malignant neoplasms of the respiratory and intrathoracic organs accounted for over one-fourth (1,204) of all cancer victims, 71.4 percent of whom were men. Cancer of the digestive organs and peritoneum claimed 1,178 victims.

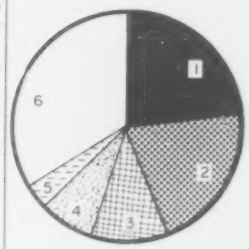
LEADING CAUSES OF DEATH BY AGE GROUP
KANSAS, 1986

ALL AGES



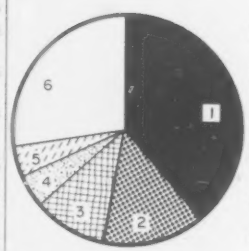
Cause of Death	Number of Deaths
1. Heart Disease	8,037
2. Cancer	4,653
3. Cerebrovascular Disease	1,699
4. Accidents	1,049
5. Chronic Obstructive Pulmonary Diseases	897
6. Other Causes	5,798
Total Deaths [1]	22,133

UNDER 1 YEAR



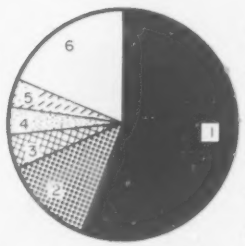
Cause of Death	Number of Deaths
1. Congenital Anomalies	78
2. Sudden Infant Death Syndrome	69
3. Respiratory Distress Syndrome and Other Respiratory Conditions	38
4. Immaturity	26
5. Infections	12
6. Other Causes	114
Total Deaths	337

1-4 YEARS



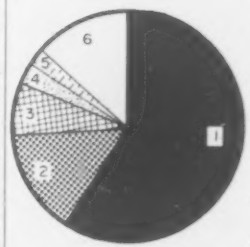
Cause of Death	Number of Deaths
1. Accidents	34
2. Congenital Anomalies	13
3. Homicide	9
4. Cancer	4
5. Meningitis	4
6. Other Causes	24
Total Deaths	88

5-14 YEARS



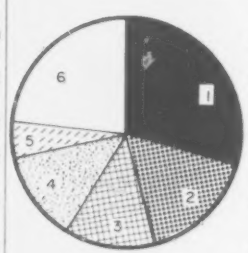
Cause of Death	Number of Deaths
1. Accidents	57
2. Cancer	13
3. Congenital Anomalies	5
4. Homicide	4
5. Pneumonia and Influenza	4
6. Other Causes	19
Total Deaths	102

15-24 YEARS



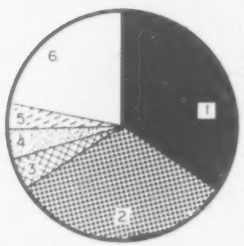
Cause of Death	Number of Deaths
1. Accidents	210
2. Suicide	52
3. Homicide	25
4. Cancer	11
5. Heart Disease	9
6. Other Causes	47
Total Deaths	354

25-44 YEARS



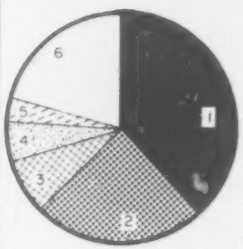
Cause of Death	Number of Deaths
1. Accidents	270
2. Cancer	153
3. Heart Disease	122
4. Suicide	117
5. Homicide	49
6. Other Causes	216
Total Deaths	927

45-64 YEARS



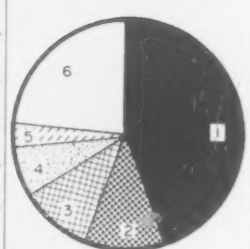
Cause of Death	Number of Deaths
1. Cancer	1,156
2. Heart Disease	1,070
3. Accidents	156
4. Chronic Obstructive Pulmonary Diseases	149
5. Cerebrovascular Disease	125
6. Other Causes	728
Total Deaths	3,384

65-84 YEARS



Cause of Death	Number of Deaths
1. Heart Disease	4,217
2. Cancer	2,734
3. Cerebrovascular Disease	866
4. Chronic Obstructive Pulmonary Diseases	616
5. Pneumonia and Influenza	376
6. Other Causes	2,281
Total Deaths	11,090

85 YEARS AND OVER



Cause of Death	Number of Deaths
1. Heart Disease	2,600
2. Cerebrovascular Disease	679
3. Cancer	594
4. Pneumonia and Influenza	421
5. Atherosclerosis	192
6. Other Causes	1,363
Total Deaths	5,849

[1] Two deaths by age group of decedent unknown

Residence data

Figure 19

Table 11
Heart Disease Deaths by Age Group and Sex
Kansas, 1986

Cause of Death and Sex (ICD Code)	Total	Age Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Diseases of the Heart (390-398, 402, 404-429).....	8,037	14	2	3	9	30	92	252	818	1,631	2,586	2,600
Male.....	4,018	9	1	2	5	23	67	195	578	1,022	1,284	832
Female.....	4,019	5	1	1	4	7	25	57	240	609	1,302	1,768
Acute Rheumatic Fever and Chronic Rheumatic Heart Disease (390-398).....	53	-	-	-	-	1	1	2	7	14	17	11
Male.....	21	-	-	-	-	-	-	2	4	7	5	3
Female.....	32	-	-	-	-	1	1	-	3	7	12	8
Hypertensive Heart Disease with or without Renal Disease (402, 404).....	167	-	-	-	-	-	1	4	10	33	67	52
Male.....	52	-	-	-	-	-	1	2	4	17	22	6
Female.....	115	-	-	-	-	-	-	2	6	16	45	46
Ischemic Heart Disease (410-414).....	5,518	-	-	-	2	14	57	176	608	1,211	1,770	1,680
Male.....	2,889	-	-	-	1	12	45	143	458	776	898	556
Female.....	2,629	-	-	-	1	2	12	33	150	435	872	1,124
Diseases of Pulmonary Circulation (415-417)	165	1	-	-	2	4	3	10	23	40	56	26
Male.....	78	1	-	-	-	2	1	6	12	25	24	7
Female.....	87	-	-	-	2	2	2	4	11	15	32	19
All Other Forms of Heart Disease (420-429).....	2,134	13	2	3	5	11	30	60	170	333	676	831
Male.....	978	8	1	2	4	9	20	42	100	197	335	260
Female.....	1,156	5	1	1	1	2	10	18	70	136	341	571

Residence data.

Table 12
Malignant Neoplasm Deaths
By Site of Lesion, Age Group and Sex
Kansas, 1986

Site of Lesion and Sex (ICD Code)	Total	Age Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Malignant Neoplasms (All Sites) (140-208)	4,653	1	4	13	11	35	118	291	865	1,455	1,279	581
Male	2,453	-	2	8	5	14	46	154	474	830	692	228
Female	2,200	1	2	5	6	21	72	137	391	625	587	353
Lip, Oral Cavity and Pharynx (140-149)	76	-	-	-	-	-	1	7	19	30	11	8
Male	43	-	-	-	-	-	1	3	10	20	8	1
Female	33	-	-	-	-	-	-	4	9	10	3	7
Digestive Organs and Peritoneum (150-159)	1,178	-	-	-	1	4	17	62	187	351	347	209
Male	619	-	-	-	1	3	10	43	107	204	179	72
Female	559	-	-	-	-	1	7	19	80	147	168	137
Respiratory and Intrathoracic Organs (160-165)	1,204	-	-	-	-	3	15	76	301	463	277	69
Male	860	-	-	-	-	2	11	53	219	329	200	46
Female	344	-	-	-	-	1	4	23	82	134	77	23
Breast (174-175)	426	-	-	-	-	9	26	41	84	106	96	64
Male	2	-	-	-	-	-	-	-	-	-	2	-
Female	424	-	-	-	-	9	26	41	84	106	94	64
Genital Organs (179-187)	557	-	-	-	1	5	12	27	74	157	196	85
Male	278	-	-	-	-	2	-	3	17	68	132	56
Female	279	-	-	-	1	3	12	24	57	89	64	29
Urinary Organs (188-189)	241	-	-	-	-	1	1	12	38	73	77	39
Male	144	-	-	-	-	-	1	10	25	54	37	17
Female	97	-	-	-	-	1	-	2	13	19	40	22
Other and Unspecified Sites (170-173, 190-199)	491	1	1	5	4	7	31	38	88	142	125	49
Male	249	-	-	3	1	5	16	24	50	73	57	20
Female	242	1	1	2	3	2	15	14	38	69	68	29
Leukemia (204-208)	186	-	3	4	4	2	5	13	25	49	58	23
Male	112	-	2	2	3	-	2	5	19	37	32	10
Female	74	-	1	2	1	2	3	8	6	12	26	13
Other Lymphatic and Hematopoietic Tissue (200-203)	294	-	-	4	1	4	10	15	49	84	92	35
Male	146	-	-	3	-	2	5	13	27	45	45	6
Female	148	-	-	1	1	2	5	2	22	39	47	29

Residence data.

Cerebrovascular Disease: Cerebrovascular deaths claimed 1,699 lives in 1986, making cerebrovascular disease the third leading cause of death for the year (Table 13). The average age at death of persons dying from cerebrovascular diseases was 80.2 years in 1986. One form, acute but ill-defined causes, accounted for 59.6 percent of all cerebrovascular deaths. Other categories of the disease include occlusion of cerebral arteries and transient cerebral ischemia, which caused 263 deaths, and subarachnoid and intracerebral hemorrhage and other and unspecified intracranial hemorrhage, which accounted for 232. Overall, the sex distribution of the victims was 38.1 percent males and 61.9 percent females.

Selected Chronic Diseases: The seven chronic diseases listed in Table 14 represented 2,144 or 9.7 percent of all deaths during 1986. Most victims of fatal chronic diseases were in the older age groups; 57.3 percent were persons 75 years or older.

Chronic obstructive pulmonary diseases and allied conditions, which (with the exception of asthma) are causally related to smoking, claimed 897 lives and was the fifth leading cause of death in Kansas in 1986. Of the 365 deaths from diabetes mellitus 58.4 percent were female. Atherosclerosis, another of the most prevalent chronic diseases, claimed 306 lives. Chronic liver disease and cirrhosis, a disease commonly linked with alcohol consumption, was more often fatal to men than to women. Over half (61.9 percent) of the 176 victims of chronic liver disease and cirrhosis were male and 38.1 percent were female.

Accidental Deaths: Deaths attributable to accidents in 1986 totaled 1,049, 4.7 percent of all deaths, making accidents the fourth-leading cause of death for the year. Types of accidents are outlined in Table 15 with the number of male and female victims and age groups.

Comparing the number of male and female accident victims in 1986, nearly two-thirds (65.9 percent) were males, and they outnumbered females in all age groups except those under 1 year of age and those 75 years and over. The average age at death for accident victims was 44.9 years. Furthermore, the average age of men dying from accidental causes was 41.5, over ten years younger than that of female victims, whose average age was 51.7 years.

Motor-vehicle accidents, the most prevalent type of fatal accident, accounted for more than half (51.7 percent) of the total in 1986. Of the 542 motor-vehicle fatalities, 20.7 percent were to males in the 15-24 year age group.

Accidental falls claimed 146 lives, which represented 13.9 percent of all accidental deaths in 1986. Over two-thirds (68.5 percent) of the victims were 75 years of age or more. Of the persons 75 years or greater who died as a result of an accident, 45.9 percent were fall victims.

Suicide and Homicide: Suicide ranked eighth and homicide and legal intervention ranked sixteenth among the leading causes of death in 1986. The average age at death from suicide was 46.0 years; that of homicide and legal intervention was 33.7, clearly emphasizing the early age of persons dying from these unnatural causes. The Kansas suicide rate was 13.6 in 1986, 7.9 percent higher than the estimated 1986 national rate of 12.6. The distribution of suicide and homicide deaths in Figure 20 compares the age group and sex of victims.

Table 13
Cerebrovascular Disease Deaths by Age Group and Sex
Kansas, 1986

Cause of Death and Sex (ICD Code)	Total	Age Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Cerebrovascular Disease (430-438)	1,699	2	-	-	4	6	17	30	95	239	627	679
Male	648	2	-	-	2	3	8	16	53	121	265	178
Female	1,051	-	-	-	2	3	9	14	42	118	362	501
Subarachnoid and Intracerebral Hemorrhage and Other and Unspecified Intracranial Hemorrhage (430-432)	232	2	-	-	2	5	15	16	37	43	71	41
Male	100	2	-	-	1	2	7	5	21	23	26	13
Female	132	-	-	-	1	3	8	11	16	20	45	28
Occlusion and Stenosis of Precerebral Arteries (433)	25	-	-	-	-	-	-	1	2	8	6	8
Male	11	-	-	-	-	-	-	1	1	5	2	2
Female	14	-	-	-	-	-	-	-	1	3	4	6
Occlusion of Cerebral Arteries and Transient Cerebral Ischemia (434-435)	263	-	-	-	1	-	1	3	12	31	104	111
Male	102	-	-	-	1	-	1	3	8	9	51	29
Female	161	-	-	-	-	-	-	-	4	22	53	82
Acute but Ill-defined Cerebrovascular Disease (436)	1,012	-	-	-	1	1	1	9	40	142	381	437
Male	359	-	-	-	-	1	-	6	20	75	150	107
Female	653	-	-	-	1	-	1	3	20	67	231	330
Other and Ill-defined Cerebrovascular Disease (437)	112	-	-	-	-	-	-	1	3	6	42	60
Male	45	-	-	-	-	-	-	1	2	2	24	16
Female	67	-	-	-	-	-	-	-	1	4	18	44
Late Effects of Cerebrovascular Disease (438)	55	-	-	-	-	-	-	-	1	9	23	22
Male	31	-	-	-	-	-	-	-	1	7	12	11
Female	24	-	-	-	-	-	-	-	-	2	11	11

Residence data.

Table 14
Selected Chronic Disease Deaths by Age Group and Sex
Kansas, 1986

Cause of Death and Sex (ICD Code)	Total	Age Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	95 & Over
Total.....	2,144	5	1	-	2	9	28	80	250	540	706	523
Male.....	1,145	2	-	-	2	5	15	47	149	322	388	215
Female.....	999	3	1	-	-	4	13	33	101	218	318	308
Diabetes Mellitus (250).....	365	-	-	-	2	3	8	23	44	89	125	71
Male.....	152	-	-	-	2	1	3	11	24	39	48	24
Female.....	213	-	-	-	-	2	5	12	20	50	77	47
Hypertension without mention of Heart Disease (401, 403).....	76	-	-	-	-	-	-	2	6	18	28	22
Male.....	37	-	-	-	-	-	-	-	3	9	18	7
Female.....	39	-	-	-	-	-	-	2	3	9	10	15
Atherosclerosis (440).....	306	-	-	-	-	-	-	-	3	23	88	192
Male.....	102	-	-	-	-	-	-	-	2	10	34	56
Female.....	204	-	-	-	-	-	-	-	1	13	54	136
Chronic Obstructive Pulmonary Diseases and Allied Conditions (490-495).....	897	1	-	-	-	2	2	23	126	303	313	127
Male.....	582	1	-	-	-	1	1	14	73	197	213	82
Female.....	315	-	-	-	-	1	1	9	53	106	100	45
Ulcer of Stomach and Duodenum (531-533).....	81	-	-	-	-	-	2	-	6	16	29	28
Male.....	44	-	-	-	-	-	1	-	5	12	15	11
Female.....	37	-	-	-	-	-	1	-	1	4	14	17
Chronic Liver Disease and Cirrhosis (571).....	176	-	-	-	-	4	13	28	55	47	22	7
Male.....	109	-	-	-	-	3	8	19	36	28	10	5
Female.....	67	-	-	-	-	1	5	9	19	19	12	2
Nephritis, Nephrotic Syndrome and Nephrosis (580-589).....	243	4	1	-	-	-	3	4	10	44	101	76
Male.....	119	1	-	-	-	-	2	3	6	27	50	30
Female.....	124	3	1	-	-	-	1	1	4	17	51	46

Residence data.

Table 15
Accidental Deaths by Age Group and Sex
Kansas, 1986

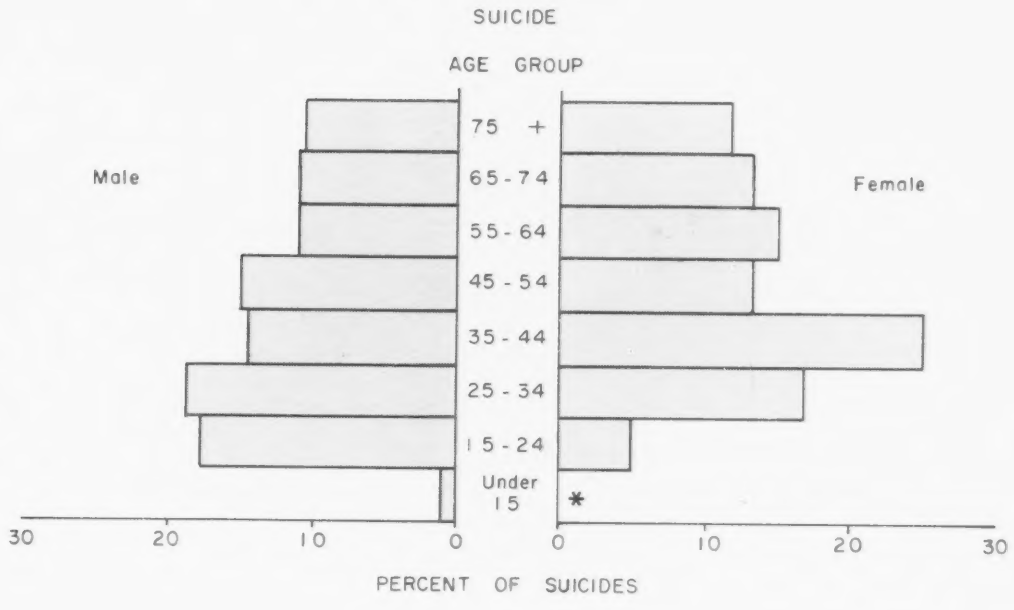
Cause of Death and Sex (ICD Code)	Total	Age Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
All Accidents (E800-E949).....	1,049	10	34	57	210	171	99	77	79	94	116	102
Male.....	691	5	21	38	152	134	70	57	51	65	57	41
Female.....	358	5	13	19	58	37	29	20	28	29	59	61
Motor-Vehicle Accidents (E810-E825).....	542	3	10	34	166	109	58	38	44	40	35	5
Male.....	367	2	6	23	112	85	39	28	27	26	17	2
Female.....	175	1	4	11	54	24	19	10	17	14	18	3
Water Transport Accidents (E830-E838).....	9	-	-	-	3	3	3	-	-	-	-	-
Male.....	6	-	-	-	3	3	-	-	-	-	-	-
Female.....	3	-	-	-	-	-	3	-	-	-	-	-
Air and Space Transport Accidents (E840-E845).....	23	-	-	1	3	2	4	11	1	-	-	1
Male.....	19	-	-	1	3	2	3	8	1	-	-	1
Female.....	4	-	-	-	-	-	1	3	-	-	-	-
Accidental Poisonings (E850-E869).....	35	-	1	-	2	7	8	8	4	3	-	2
Male.....	27	-	1	-	1	6	7	6	4	1	-	1
Female.....	8	-	-	-	1	1	1	2	-	2	-	1
Accidental Falls (E880-E888).....	146	1	1	1	6	3	5	4	7	18	45	55
Male.....	76	-	1	1	6	3	3	2	5	14	21	20
Female.....	70	1	-	-	-	-	2	2	2	4	24	35
Accidents Caused by Fire and Flames (E890-E899).....	41	-	9	4	1	9	1	3	4	2	3	5
Male.....	24	-	4	2	1	6	1	3	2	1	1	3
Female.....	17	-	5	2	-	3	-	-	2	1	2	2
Accidents Due to Natural and Environmental Factors (E900-E909).....	13	-	-	-	-	-	1	-	1	6	3	2
Male.....	9	-	-	-	-	-	1	-	1	4	3	-
Female.....	4	-	-	-	-	-	-	-	-	2	-	2
Accidental Drowning and Submersion (E910).....	47	1	8	5	11	11	4	1	3	2	-	1
Male.....	38	1	7	3	10	9	3	1	2	1	-	1
Female.....	9	-	1	2	1	2	1	-	1	1	-	-
Inhalation and Ingestion of Food Causing Obstruction or Suffocation (E911).....	43	1	2	1	-	4	-	2	2	4	13	14
Male.....	20	-	1	1	-	2	-	-	-	2	6	8
Female.....	23	1	1	-	-	2	-	2	2	2	7	6

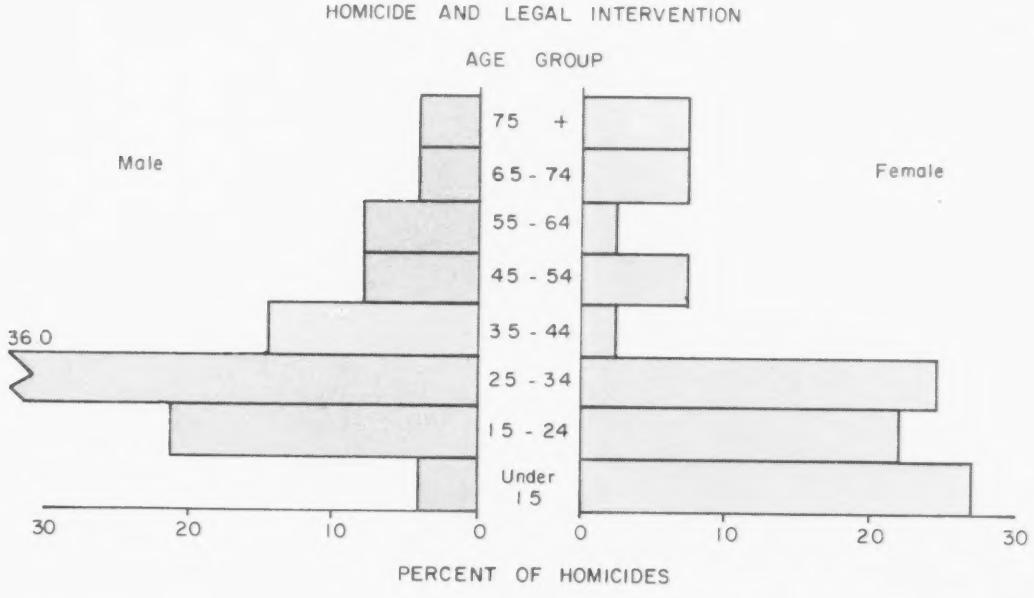
Table 15 (cont.)
Accidental Deaths by Age Group and Sex
Kansas, 1986

Cause of Death and Sex (ICD Code)	Total	Age Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Accidents Caused by Machinery (E919).....	21	-	-	2	2	1	2	3	5	5	1	-
Male.....	20	-	-	1	2	1	2	3	5	5	1	-
Female.....	1	-	-	1	-	-	-	-	-	-	-	-
Accidents Caused by Electric Current (E925).....	15	-	-	1	4	4	4	2	-	-	-	-
Male.....	15	-	-	1	4	4	4	2	-	-	-	-
Female.....	-	-	-	-	-	-	-	-	-	-	-	-
Other Accidents (E800-E807, E826-E829, E846-E848, E870-E879, E912-E918, E920-E924, E926-E949).....	114	4	3	8	12	18	9	5	8	14	16	17
Male.....	70	2	1	5	10	13	7	4	4	11	8	5
Female.....	44	2	2	3	2	5	2	1	4	3	8	12

Residence data.

SUICIDE AND HOMICIDE
PERCENT DISTRIBUTION BY AGE GROUP AND SEX
KANSAS, 1986





* No suicide deaths occurred for females under 15.
Residence data

Figure 20

Over three-fourths (82.0 percent) of the 334 suicide victims in 1986 were males. Male victims between 25 and 34 years of age accounted for 15.6 percent of all suicide deaths while men between 15 and 24 years of age ranked second (14.7 percent). The most prevalent age group for female suicide victims was the 35-44 year range, which accounted for 4.5 percent of all suicide deaths. The average age of male suicide victims was 45.2, while the average age of female victims was 49.8 years.

Nearly two-thirds (64.7 percent) of the 116 homicide and legal intervention victims in 1986 were male. Over twenty-three (23.3) percent of the homicide deaths were men in the 25 to 34 age group and another 13.8 percent were in the 15 to 24 age group. Almost ten (9.5) percent of the homicide victims were females under 15 years of age. The average age of male homicide victims in 1986 was 35.7 years, that of female victims was 30.1 years. The 1986 homicide and legal intervention rate for Kansas was 4.7 and was 46.0 percent lower than the estimated United States rate of 8.7.

Contributing Causes: The ten leading underlying (principal) causes of death are listed in Table 16 along with the number of times each of these specific underlying causes of death was mentioned as a contributing cause of death. The same cause cannot appear both as an underlying and contributing cause; therefore, all of the diagonal cells of the table are blank. Each contributing cause is counted only once in the same column but the same death may be counted in more than one column.

In Kansas in 1986, heart disease accounted for a total of 8,037 underlying causes and 611, or 7.6 percent, of these deaths listed cerebrovascular disease as a contributing cause. Cancer accounted for a total 4,653 underlying causes and 1,152, or 24.8 percent, of these deaths listed heart disease as a contributing cause. Only 306 deaths were attributed to atherosclerosis in 1986; yet, 1,011 of the leading underlying causes listed atherosclerosis as a contributing factor.

Occupation and Industry of Decedent: In 1983, the Kansas Department of Health and Environment began using the Classified Index of Industries and Occupations developed by the U.S. Department of Commerce for categorizing such data. The occupations of decedents for selected causes of death are presented in Table 17.

More than 6,600 Kansas housewives died in 1986, representing 29.9 percent of the total deaths. Persons employed in technical, sales and administrative support occupations comprised 13.7 percent of deaths, and another 13.5 percent worked in managerial and professional specialty occupations. Over fourteen (14.2) percent of accident victims, 19.0 percent of deaths due to homicide and legal intervention, and 17.1 percent of those who committed suicide were operators, fabricators and laborers.

The agriculture, forestry and fisheries industry employed the highest percentage (11.0) of 1986 Kansas decedents. Another 10.3 and 9.5 percent, respectively, worked in professional services and manufacturing. The dominant industry for deaths due to accidents was agriculture, forestry and fisheries, and for homicide and legal intervention it was retail trade. The manufacturing industry employed the majority of persons who committed suicide. Type of industry by selected causes of death is shown in Table 18.

Table 16
Ten Leading Causes of Death[a/]
Underlying Cause by Contributing Cause
Kansas, 1986

Leading Underlying Causes of Death (ICD Code)	Total	Total	Contributing Causes of Death[b/]									
			Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Accidents	Chronic Obstructive Pulmonary Diseases	Pneumonia and Influenza	Diabetes Mellitus	Atherosclerosis	Suicide	Nephritis, Nephrotic Syndrome and Nephrosis
Leading Causes.....	18,451	9,556	3,050	557	956	431	860	1,041	889	1,011	1	760
Heart Disease (390-398,402,404-429).	8,037	3,337	-	326	611	185	489	295	558	526	1	346
Malignant Neoplasms (140-208).....	4,653	2,299	1,152	-	125	119	224	328	122	40	-	189
Cerebrovascular Disease (430-438).....	1,699	1,255	450	53	-	60	53	163	103	338	-	35
Accidents (E800-E949).....	1,049	266	179	12	17	-	13	9	8	9	-	19
Chronic Obstructive Pulmonary Diseases (490-496).....	897	734	380	52	33	28	-	175	30	15	-	21
Pneumonia and Influenza (480-487).....	868	692	344	64	94	17	58	-	38	34	-	43
Diabetes Mellitus (250).....	365	478	243	17	64	10	4	25	-	42	-	73
Atherosclerosis (440).....	306	260	159	9	-	8	8	24	18	-	-	34
Suicide (E950-E959).....	334	36	14	11	1	-	7	1	1	1	-	-
Nephritis, Nephrotic Syndrome and Nephrosis (580-589).....	243	199	129	13	11	4	4	21	11	6	-	-

[a/] This table represents 83.4 percent of the total 22,133 resident deaths in 1986.
[b/] Contributing causes represent the frequency with which these causes are mentioned on the death certificate as other than the underlying cause of death.

Table 17
Occupation of Decedent by
Selected Causes of Death
Kansas, 1986

Occupation of Decedent	Total	Selected Cause of Death										
		Heart Disease	Malignant Neoplasms	Cerebro-vascular Disease	Accidents	Suicide	Athero-sclerosis	Chronic Liver Disease and Cirrhosis	Homicide and Legal Intervention	Ulcer of Stomach and Duodenum	Hyper-tension	All Other Causes
Total.....	22,133	8,037	4,653	1,699	1,049	334	306	176	116	81	76	5,606
Housewives.....	6,611	2,632	1,198	710	138	32	140	41	12	28	27	1,653
Technical, Sales and Administrative Support.....	3,033	1,048	778	195	131	52	28	20	10	6	10	755
Managerial and Professional Specialty.....	2,982	1,091	776	236	114	41	37	24	9	3	12	639
Farming, Forestry and Fishing.....	2,383	957	461	176	107	34	44	13	4	15	8	564
Operators, Fabricators and Laborers.....	2,347	826	518	122	149	57	23	24	22	10	6	590
Precision Production, Craft and Repair.....	2,268	807	518	138	113	62	15	28	20	10	5	552
Service Workers....	1,337	490	285	90	60	18	13	15	15	6	7	338
No Occupation.....	231	50	21	9	35	13	2	4	2	2	-	93
Students.....	223	5	14	3	139	20	-	-	9	-	-	33
Children Under 5 Years.....	396	16	5	2	42	-	-	-	10	-	-	321
Other and Not Stated.....	322	115	79	18	21	5	4	7	3	1	1	68

Residence data.

Table 18
Type of Industry by Selected Causes of Death
Kansas, 1986

Type of Industry	Total	Selected Cause of Death										
		Heart Disease	Malignant Neoplasms	Cerebro-vascular Disease	Accidents	Suicide	Athero-sclerosis	Chronic Liver Disease and Cirrhosis	Homicide and Legal Intervention	Ulcer of Stomach and Duodenum	Hyper-tension	All Other Causes
Total.....	22,133	8,037	4,653	1,699	1,049	334	306	176	116	81	76	5,606
Agriculture, Forestry and Fisheries.....	2,433	979	472	184	107	34	44	13	3	15	8	574
Professional Services.....	2,280	841	545	172	93	24	29	15	8	6	12	535
Manufacturing.....	2,112	740	538	126	106	44	19	22	15	11	6	485
Retail Trade.....	1,788	631	425	128	99	28	19	13	16	4	5	420
Transportation, Communications and Public Utilities.....	1,643	612	365	91	83	27	21	17	3	4	5	415
Construction.....	1,198	401	275	76	74	32	10	17	14	3	1	295
Public Administration...	645	226	161	49	17	12	6	5	3	2	4	160
Business and Repair Services..	527	164	127	31	30	24	1	5	9	2	-	134
Finance, Insurance and Real Estate.....	500	156	128	37	18	9	2	6	2	-	2	140
Personal Services.....	499	194	114	40	11	6	5	6	2	2	2	117
Wholesale Trade...	476	181	122	22	28	18	-	4	4	1	3	93
Mining.....	319	128	69	13	9	4	6	1	2	-	1	86
Entertainment and Recreation Services.....	69	30	18	2	4	-	-	2	-	-	-	13
Other and N.S.*...	7,644	2,754	1,294	728	370	72	144	50	35	31	27	2,139

*This category includes housewives, military personnel, students, children and those who were never employed.
Residence data.

SPECIAL AIDS SUMMARY

AIDS CASES AND DEATHS BY YEAR REPORTED
KANSAS, JANUARY 1, 1982 THROUGH JULY 7, 1987

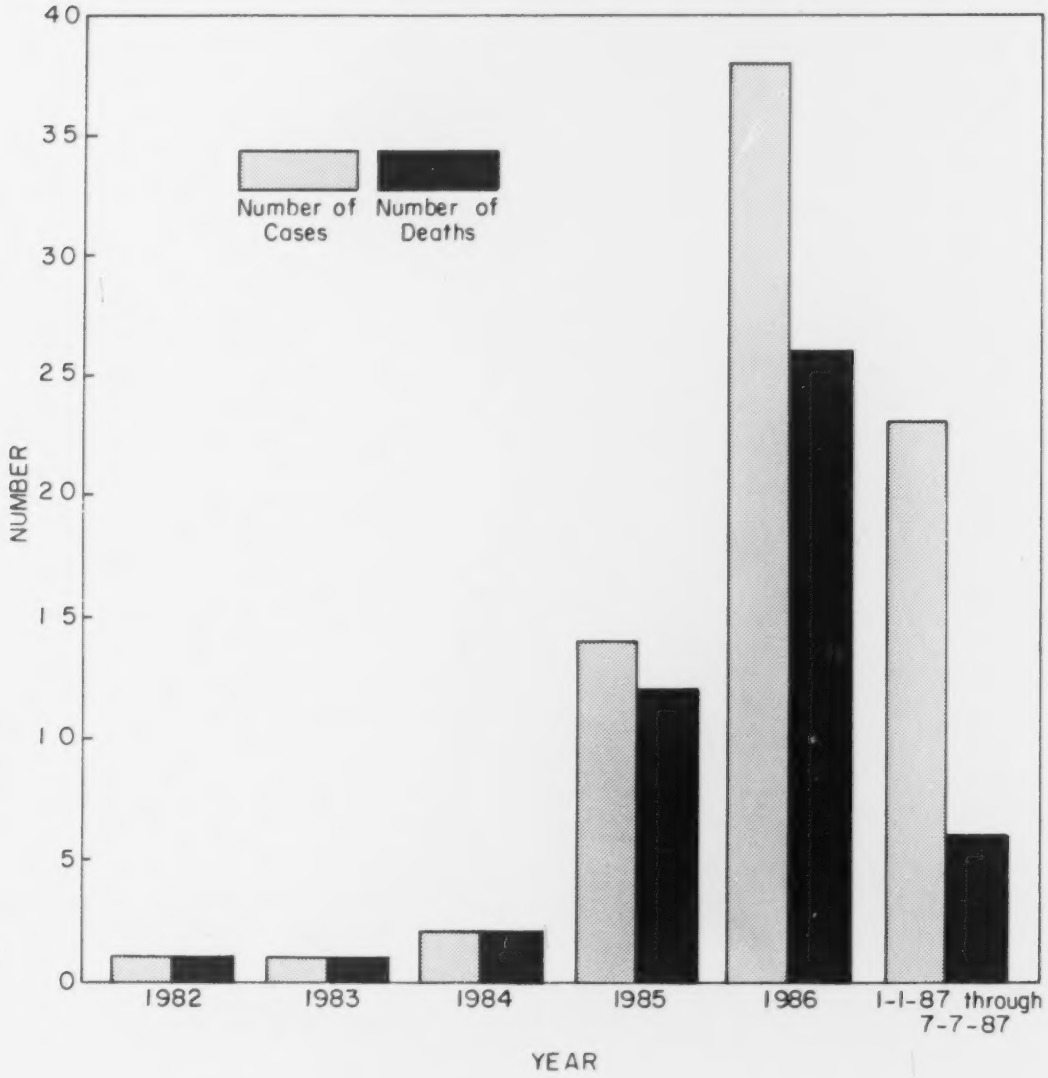


Figure 21

SPECIAL AIDS SUMMARY

This section of the annual summary concerns AIDS (Acquired Immunodeficiency Syndrome). Since 1981 when AIDS was first identified in the United States it has become a growing issue of national concern. The first Kansas case of AIDS was reported in 1982 and the number of cases has grown significantly since then.

AIDS is caused by a virus that may be transmitted from one person to another primarily through sexual contact. Other means of transmission include sharing of intravenous drug needles, receiving a transfusion of infected blood or blood products, or by transmitting the infection from mother to infant through birth or breastfeeding. Although the AIDS virus has been found in tears and saliva, no instance of transmission from these body fluids has been reported. There is no evidence of transmission of the AIDS virus by casual social contact, by insects, or by domestic animals.

Some other names given to the AIDS virus by the scientific community are:

HIV - Human Immunodeficiency Virus
HTLV-III - Human T-Lymphotropic Virus Type III
LAV - Lymphadenopathy Associated Virus

The AIDS virus infects certain cells of the immune system and can also directly infect the brain. Over sixty (63.3) percent of the Kansas AIDS cases since 1982 have reported either of two rare diseases which take advantage of the body's weakened immune system. These two opportunistic diseases are Pneumocystis carinii pneumonia, a parasitic infection of the lungs with 59.5 percent, and Kaposi's Sarcoma, a type of cancer with 3.8 percent of the total cases reported. At the present time there is no effective drug therapy available to treat AIDS nor is there any vaccine to protect persons who may be exposed to the AIDS virus.

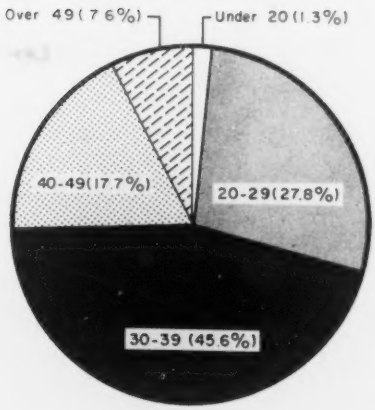
Reporting of AIDS

In accordance with the Centers for Disease Control (CDC) guidelines, a person possessing the necessary clinical features of AIDS is designated as a Kansas AIDS case if the onset of symptoms occurred while the person was living in Kansas. A person who moves to Kansas after the onset of symptoms is not considered a Kansas AIDS case. If a person's death is due to AIDS, the death is allocated to the place of residence at the time of the onset of symptoms. Thus, the AIDS data reported in this section are neither residence nor occurrence data in the strictest sense, and, therefore, are not comparable to the data reported elsewhere in this publication. In compliance with the CDC guidelines designed to insure confidentiality, counties with fewer than ten accepted cases are not identified.

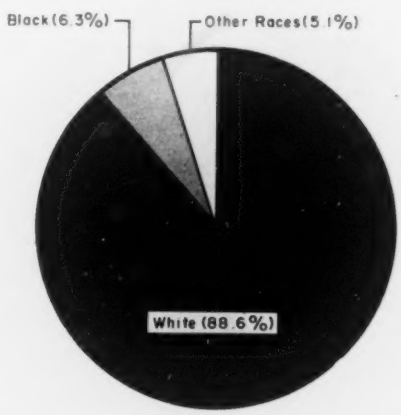
AIDS in Kansas

Since the first AIDS case was detected in 1982 there have been 79 total cases reported through July 7, 1987. Of these 79 cases, 60.8 percent (48) have died. This 60.8 percent case-fatality rate compares to a national case-fatality rate of 57.4 percent. Figure 21 shows the number of new AIDS cases diagnosed in Kansas from 1982 through July 7, 1987.

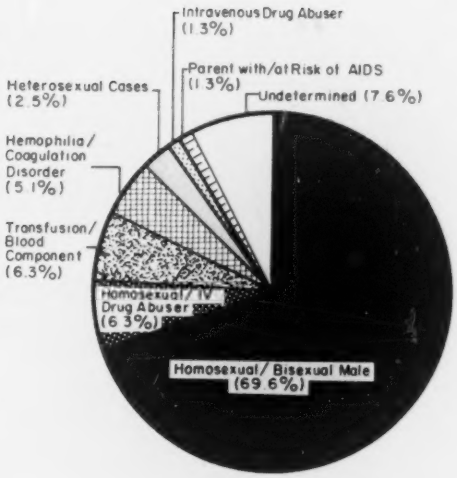
AIDS CASES: PERCENT DISTRIBUTION BY SELECTED CHARACTERISTICS KANSAS, JANUARY 1, 1982 THROUGH JULY 7, 1987



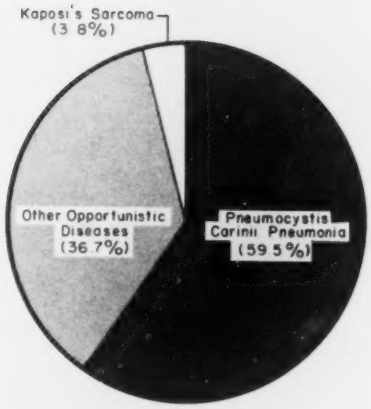
AGE



RACE


Intravenous Drug Abuser (1.3%)
Parent with/at Risk of AIDS (1.3%)
Undetermined (7.6%)
Heterosexual Cases (2.5%)
Hemophilia/ Coagulation Disorder (5.1%)
Transfusion/ Blood Component (6.3%)
Homosexual/ IV Drug Abuser (6.3%)
Homosexual/ Bisexual Male (69.6%)

TRANSMISSION CATEGORIES



OPPORTUNISTIC DISEASE

Figure 22

Risk Factors

AIDS typically affects a white, homosexual or bisexual male in the 30-39 year age group. Figure 22 shows that since 1982, 55 of the 79 reported cases of AIDS in Kansas (69.6 percent), have been to homosexual or bisexual males. Almost fifty (45.6) percent of all AIDS cases reported in Kansas since 1982 were in the 30-39 age group. Almost ninety (88.6) percent of the Kansas AIDS cases reported since 1982 have been to whites, with black and other races accounting for the remaining 11.4 percent.

Of the 79 total cases of AIDS reported since 1982 in Kansas, over three-fourths (77.2 percent) were reported in the four Kansas counties with populations over 100,000. This coincides with national statistics showing that the vast majority of AIDS cases occur in urban areas of the United States. Johnson County (26.6 percent) and Wyandotte County (20.3 percent) have reported the largest percentage of Kansas AIDS cases since 1982. Shawnee County reported 16.5 percent and Sedgwick County reported 13.9 percent of the total AIDS cases since 1982 in Kansas. The other 101 Kansas counties reported 22.8 percent of the total AIDS cases since 1982 in Kansas. Table 19 shows the AIDS case distribution and rates for selected Kansas counties.

Table 19
AIDS Case Rates and Percent Distribution by Selected Counties
Kansas, 1-1-82 through 7-7-87

County	Cases	AIDS Case Rate*	Percent
Wyandotte	16	9.3	20.2
Shawnee	13	8.2	16.5
Johnson	21	6.9	26.6
Sedgwick	11	2.8	13.9
Other Counties	18	n/a	22.8
Kansas Total	79	3.2	100.0

*Cases per 100,000 population

AIDS in the United States

Of the 38,160 AIDS cases reported to the Centers for Disease Control (CDC) since 1981 in the United States, New York with 10,905 cases (28.6 percent) and California with 8,836 cases (23.2 percent) have accounted for more than half. Kansas as a state ranks 35th in the nation with 0.2 percent of the total AIDS cases reported. Table 20 shows the AIDS case distribution and rates for selected states and Kansas.

Table 20
AIDS Case Rates and Percent Distribution by Selected States
United States, 1-1-81 through 7-7-87

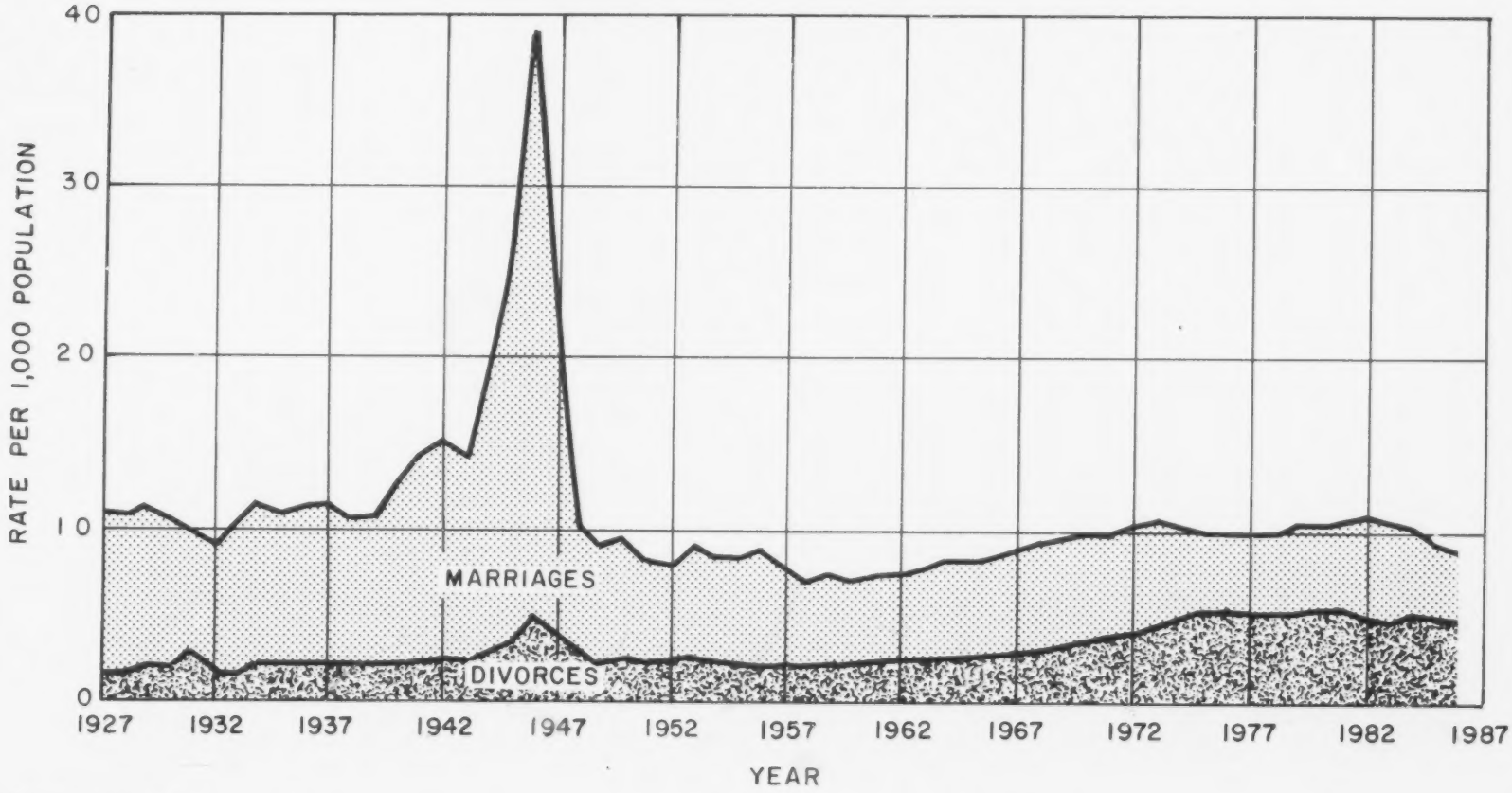
State	Rank*	Cases	AIDS Case Rate**	Percent
New York.....	1	10,905	61.3	28.6
California.....	2	8,836	33.5	23.2
Colorado.....	17	394	12.2	1.0
Missouri	20	247	4.9	0.6
Oklahoma.....	30	120	3.6	0.3
KANSAS.....	35	79	3.2	0.2
Nebraska	43	32	2.0	0.1
Other States	n/a	17,547	n/a	46.0
United States....	n/a	38,160	n.a.	100.0

*Rank by number of cases

**Cases per 100,000 population (1985 population estimates based on U.S. Bureau of the Census, Current Population Reports, Series P-25)

MARRIAGES

MARRIAGE AND DIVORCE RATES
KANSAS, 1927 - 1986



Occurrence data.

Figure 23

MARRIAGES

In 1986, there were 22,667 marriages performed in Kansas, a decrease of 2.6 percent from the 1985 total of 23,281. Twenty-one (21.2) percent of the persons who exchanged vows in Kansas in 1986 were residents of other states while 78.8 percent were Kansas residents. However, the data presented in this summary refer to all marriages which occurred in the State. The greatest number of marriages (4,178) occurred in Sedgwick County, but Geary County had the highest marriage rate (23.5) per 1,000 population in 1986. (The number of marriages performed in each county and corresponding marriage rates appear in Appendix Table 35.)

Trends

In 1946, after World War II, marriage rates in Kansas reached a record high of 38.8 per thousand population as outlined in Figure 23. After falling sharply in the late 1940s and during the Korean War in the early 1950s, the rates dipped slightly between 1955 and 1960. In 1961 when the rate was 7.6 per 1,000 population, marriage rates in Kansas began to rise again. Upon reaching 10.0 in 1970, the rates stabilized between 10.0 and 11.1 from 1970 to 1984. In 1986 the Kansas marriage rate was 9.2, which was 8.0 percent lower than the estimated national rate of 10.0.

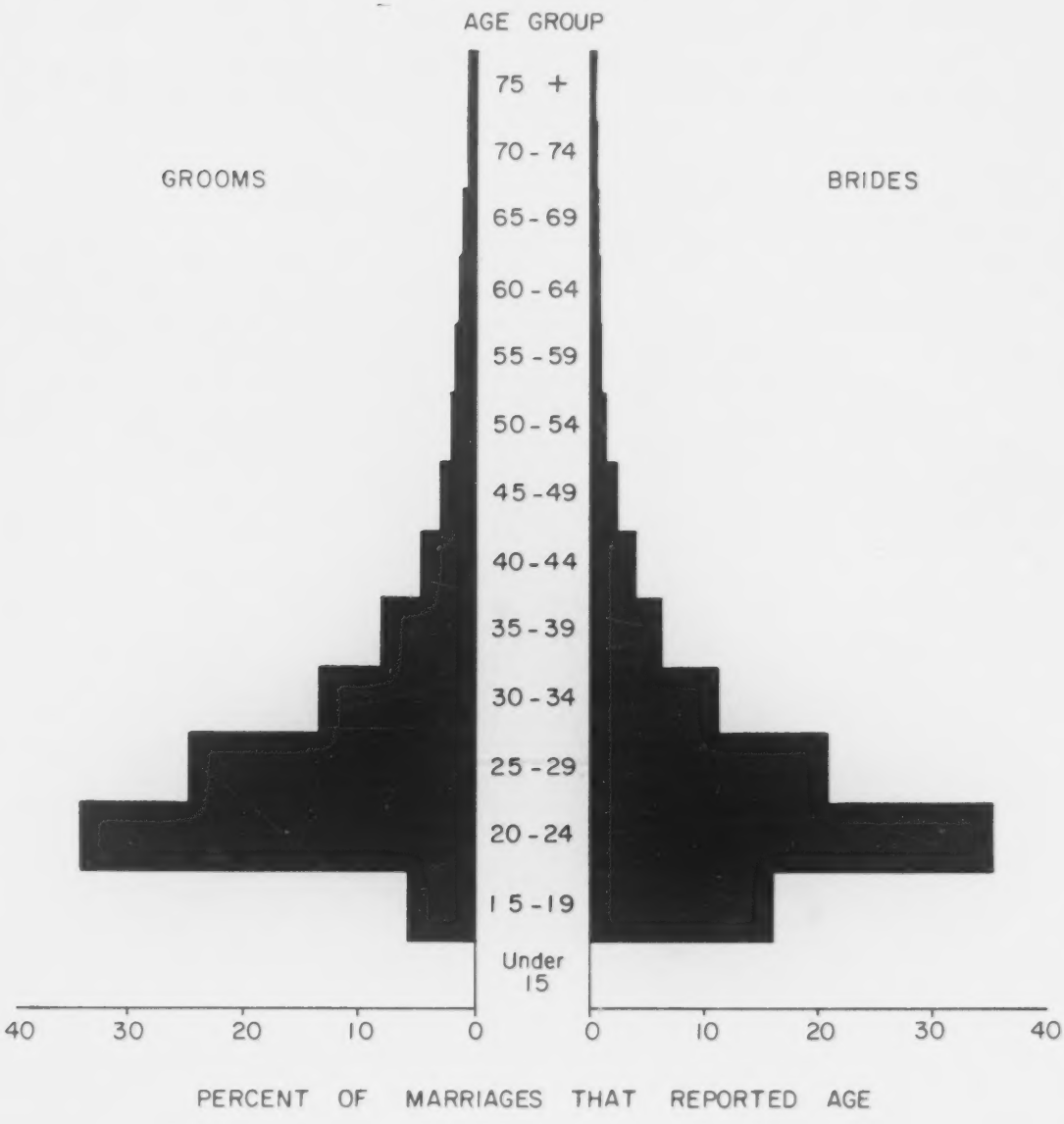
Nuptial Age

As illustrated in Figure 24, the highest percentage of those who married in 1986 were between 20 and 24 years of age. Just over thirty-five (35.3) percent of the brides and 34.0 percent of the grooms were in that age group. A decade ago, 38.6 percent of all Kansas brides were 20 years of age or younger while 19.9 percent of grooms were of that age group. Nearly one-fourth (23.3 percent) of the brides and only 11.3 percent of grooms were 20 years or younger in 1986. In 1976, brides and grooms averaged 25.4 and 27.9 years, respectively. The average age of all brides in 1986 was 27.4 and that of grooms was 29.7. Women marrying for the first time averaged 22.7 years of age while first-time grooms averaged 25.0 years. Of those persons who remarried during 1986, women were, on the average, 35.0 years old and men were 38.4 years of age. The number of brides and grooms by age group in 1986 is shown in Table 21. The youngest couple to marry in Kansas in 1986 was a 16-year-old groom and a 15-year-old bride. The most common age combination was a 20-year-old bride and a 21-year-old groom. More rare age combinations in 1986 included a 30-year-old groom with a 66-year-old bride and a bride of 20 married a man in the 70-74 year range.

Race

Most of the marriages (99.0 percent) performed in Kansas in 1986 were between partners of the same race. Of the 883 interracial marriages, over one-third (39.5 percent) were between whites and blacks, and 30.7 percent were between whites and Indians. The most prevalent interracial marriage (282) was between a white woman and a black man. While marriages in Kansas have increased a mere 3.8 percent in the last ten years, the number of interracial marriages has increased 59.7 percent since 1976. The white-Indian racial combination was most common in 1976, accounting for 32.7 percent of the 553 interracial marriages compared to 32.4 percent for marriages between blacks and whites.

MARRIAGES: PERCENT DISTRIBUTION BY AGE GROUP
KANSAS, 1986



Occurrence data

Figure 24

Table 21
Marriages by Age Group of Groom, by Age Group of Bride
Kansas, 1986

Age Group of Groom	Total	Age Group of Bride														
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & Over	Not Stated
Total.....	22,667	4	3,590	7,985	4,686	2,526	1,450	872	543	317	180	175	147	92	70	30
Under 15....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19.....	1,313	1	954	308	36	8	2	2	-	-	-	-	-	-	-	2
20-24.....	7,704	2	2,159	4,508	804	160	48	9	5	2	-	-	-	-	-	7
25-29.....	5,545	1	369	2,295	2,097	590	151	33	5	-	-	-	-	-	-	4
30-34.....	2,987	-	75	613	1,094	810	283	80	22	2	-	1	1	-	-	6
35-39.....	1,877	-	17	180	458	566	443	150	47	11	3	-	-	-	-	2
40-44.....	1,074	-	5	49	127	257	280	244	85	18	6	1	-	-	-	2
45-49.....	681	-	5	12	43	82	145	185	141	51	13	1	1	-	-	2
50-54.....	430	-	1	7	15	29	65	85	119	74	21	8	4	1	1	-
55-59.....	325	-	-	3	6	14	24	52	65	78	47	25	8	3	-	-
60-64.....	241	-	2	-	4	5	6	25	35	43	48	42	23	5	1	2
65-69.....	194	-	-	-	-	1	-	3	11	24	31	55	48	14	6	1
70-74.....	145	-	-	2	1	-	1	3	6	10	6	24	44	35	13	-
75 & Over...	129	-	-	-	-	-	-	-	2	2	5	18	18	34	49	1
Not Stated..	22	-	3	8	1	4	2	1	-	2	-	-	-	-	-	1

Occurrence data.

 Premarital Status

Marriages where neither party had been previously married accounted for 11,100 or 49.0 percent of all marriages. More specifically, 59.5 percent of brides and 61.5 percent of grooms had never been married, compared with 66.3 and 66.2 percent respectively for brides and grooms in 1976. Most of those remarrying (89.5 percent) in 1986 had been divorced. More than one-third of brides and grooms were divorced (36.0 and 34.6 percent, respectively) while only 29.1 percent of persons marrying ten years ago had been divorced. Of those who remarried in 1986, 8.9 percent were widowed and 1.6 percent had obtained annulments. Shown in Table 22 is the number of brides and grooms in 1986 by their premarital status.

Table 22
Marriages by Premarital Status of Bride and Groom
Kansas, 1986

Premarital Status of Groom	Total	Premarital Status of Bride				
		Never Married	Divorced	Annulled	Widowed	Not Stated
Total	22,667	13,425	8,128	163	834	117
Never Married ..	13,903	11,100	2,605	55	87	56
Divorced	7,817	2,203	5,175	75	328	36
Annulled	126	50	47	19	7	3
Widowed	752	42	280	14	411	5
Not Stated	69	30	21	-	1	17

Occurrence data.

Seasonality

June accounted for 2,739 or 12.1 percent of the marriages performed in Kansas in 1986. August was the second most popular month and accounted for 12.0 percent of the 1986 marriages. The distribution of marriages by month of ceremony is presented below.

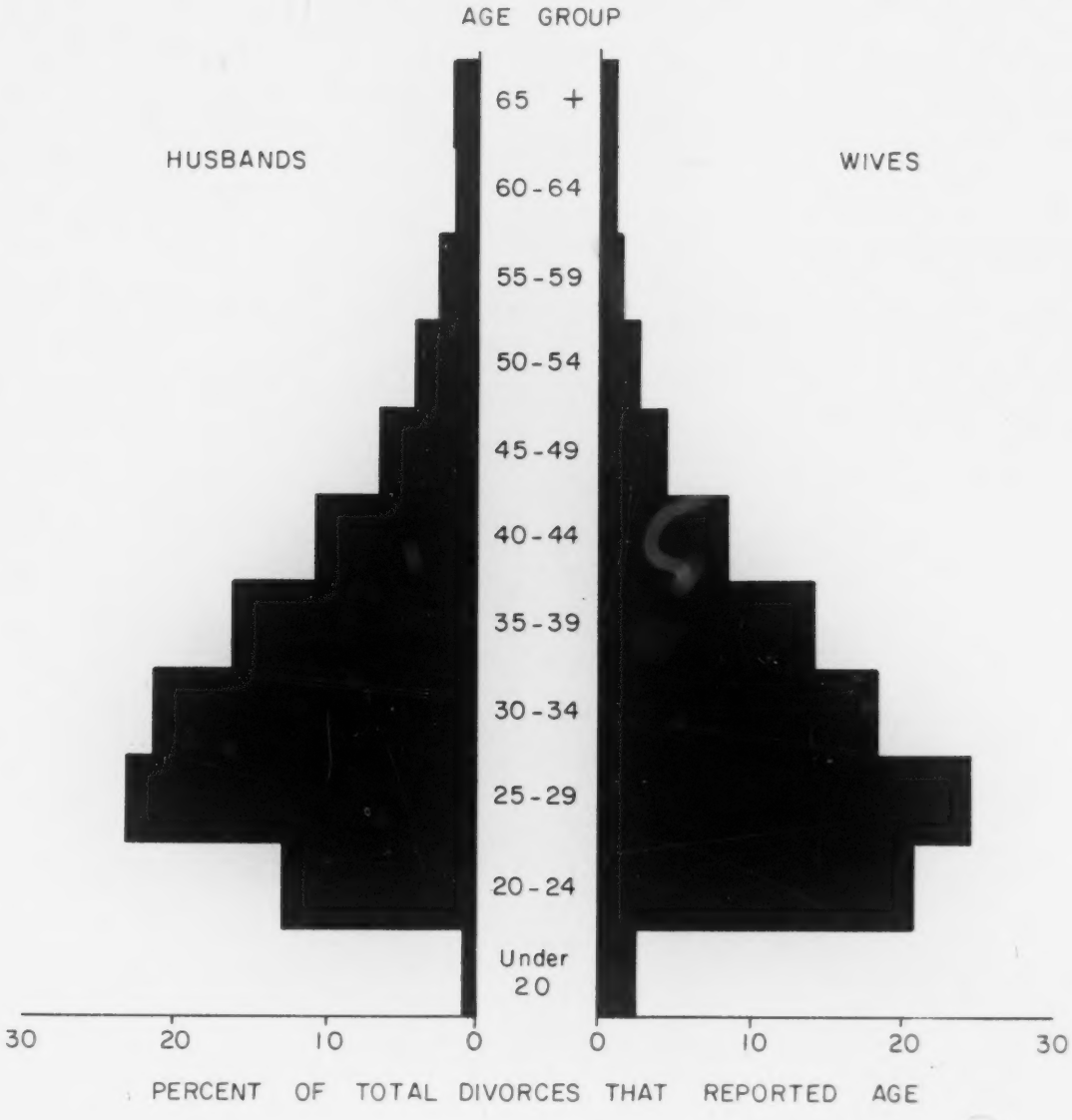
Marriages: Number and Percent by Month

	Number	Percent
Total	22,667	100.0
January	1,074	4.7
February	1,375	6.1
March.....	1,373	6.1
April.....	1,728	7.6
May.....	2,497	11.0
June	2,739	12.1
July	2,069	9.1
August	2,729	12.0
September	1,827	8.1
October	1,734	7.6
November	1,690	7.5
December	1,832	8.1

Occurrence data.

DIVORCES AND ANNULMENTS

DIVORCES: PERCENT DISTRIBUTION BY AGE GROUP KANSAS, 1986



Occurrence data.

Figure 25

DIVORCES AND ANNULMENTS

There were 12,364 marriage dissolutions in Kansas in 1986, a decrease of 3.4 percent from the 12,794 granted in 1985. The number of divorces decreased from 12,543 in 1985 to 12,147 in 1986 while the number of annulments decreased from 251 in 1985 to 217 in 1986.

Whereas a divorce is the dissolution of a legally binding marriage contract, an annulment voids the marriage contract of an invalid marriage. It is therefore as expected that annulments represent a minor portion of all marriage dissolutions in Kansas (1.8 percent in 1986). In many cases annulments have been grouped with divorces for purposes of presentation in this summary. (The total divorces and annulments in each county from 1982 through 1986 are shown by number and rate in Appendix Table 36.)

Trends

Prior to and during World War II the divorce rates remained relatively stable as shown in Figure 23. In 1946, however, the divorce rate reached a peak of 5.0 per 1,000 population. Following this increase the divorce rates stabilized along the average annual rate of 2.5 per 1,000 population from 1949 to 1966. Since that time, the divorce rate has generally increased, reaching a high of 5.6 in 1980 and 1981 and then decreasing in 1983 to a rate of 4.9. In 1986, the divorce rate was 4.9 per thousand population. The Kansas divorce and annulment rate in 1986 was 5.0, a figure that is 4.2 percent greater than the estimated national rate of 4.8.

The number of annulments increased from 65 in 1952 to 253 in 1983. The annulment rate per thousand population fluctuated very little, remaining between 0.03 and 0.12 during that time period. In 1986, the annulment rate was 0.10.

Ages of Spouses

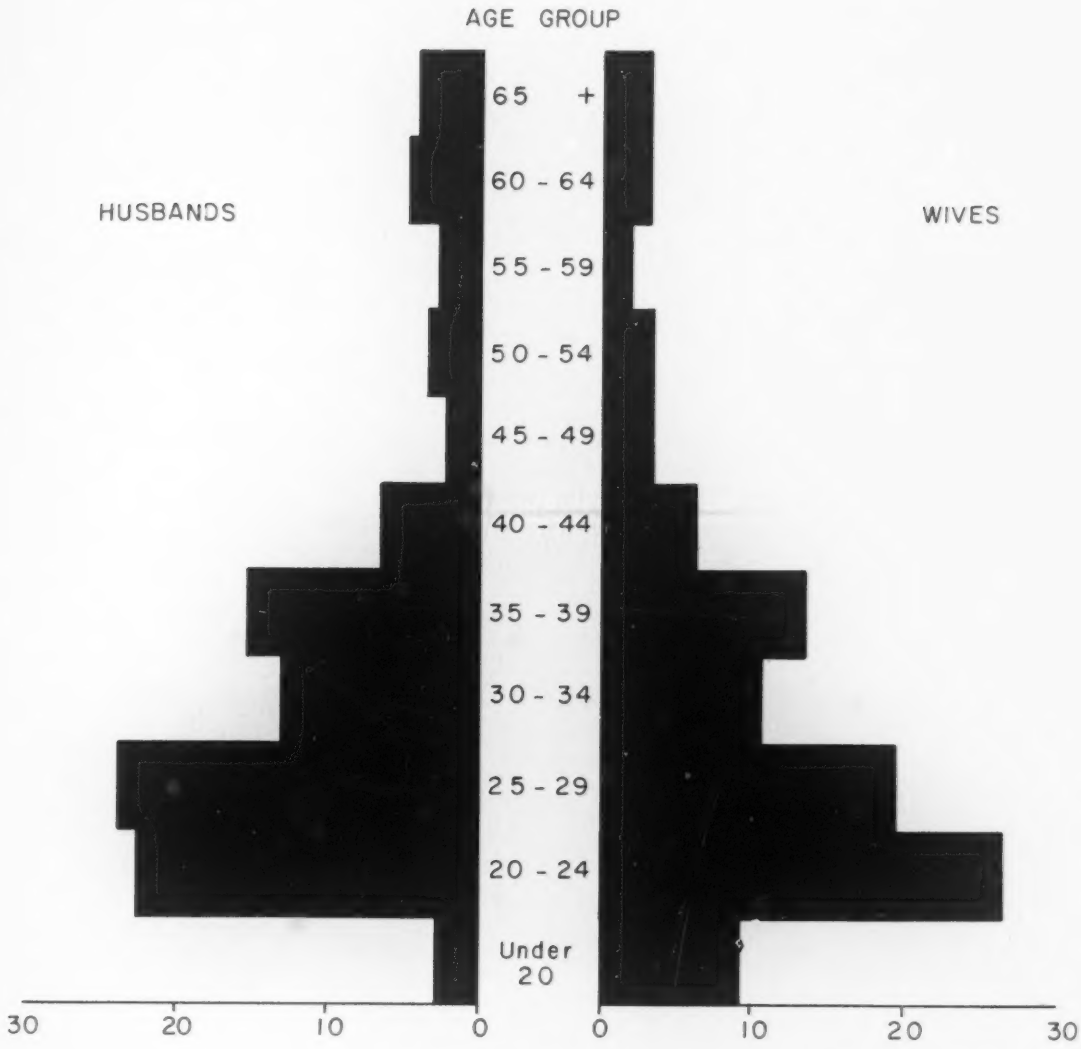
As shown in Figure 25, the most common age group involved in divorces was 25 to 29 years with the incidence decreasing with the older age groups. The 25 to 29 year age group accounted for 23.1 percent and 24.5 percent of all newly divorced men and women respectively. The average age of husbands who were divorced was 34.7 and that of wives was 32.2.

The ages from 20 to 24 were the most prevalent ages during which annulments were granted to husbands and wives in 1986. The average age of wives of annulled marriages was 32.0 while that of husbands was 34.2. Illustrated in Figure 26 is the percent distribution of annulments by husbands' and wives' ages.

Race

Nearly all (97.2 percent) of the divorces and annulments in 1986 were granted to partners of the same race. Ninety-two percent were granted to white couples, 4.8 percent to black couples, 0.4 percent to other non-white couples of the same race and 2.8 percent to partners of different races.

ANNULMENTS: PERCENT DISTRIBUTION BY AGE GROUP KANSAS, 1986



Occurrence data

Figure 26

Duration of Marriage

Over half (53.9 percent) of the marriages dissolved in 1986 were terminated before the sixth year of marriage as outlined in Table 23. Marriages ending in divorce lasted an average of 8.1 years, about 17 months shorter than the average duration (9.5 years) of marriages ended by divorce in 1966. Couples who received annulments had been married an average of 1.7 years and nearly two-thirds (64.5 percent) of annulments were granted during the first year of marriage.

Table 23
Divorces and Annulments
By Duration of Marriage in Years
Kansas, 1986

Duration of Marriage	Total Divorces and Annulments	Divorces	Annulments
Total	12,364	12,147	217
Under 1 year	871	731	140
1 year	1,319	1,281	38
2 years	1,315	1,303	12
3 years	1,161	1,152	9
4 years	1,089	1,085	4
5 years	897	890	7
6 years	726	725	1
7 years	630	630	-
8 years	508	508	-
9 years	431	431	-
10 years	359	358	1
11 years	322	322	-
12 years	321	321	-
13 years	259	259	-
14 years	236	235	1
15 years	194	194	-
16 years	201	200	1
17 years	186	186	-
18 years	145	145	-
19 years	125	125	-
20-24 years	500	497	3
25-29 years	299	299	-
30-34 years	143	143	-
35-39 years	61	61	-
40 years & Over ...	44	44	-
Not Stated	22	22	-

Occurrence data.

Number of Minor Children

As shown in Table 24, 13,462 minor children were involved in the 12,364 divorces and annulments in 1986, an increase of 54.4 percent over the 8,721 children affected by divorces and annulments twenty years ago. At least one minor child was reported in over half (57.9 percent) of the marriages ending in divorce. Only 4.6 percent of the annulments involved minor children.

Table 24
Divorces and Annulments by Number and Percent
By Number of Minor Children
Kansas, 1986

Number of Minor Children Reported	Divorces		Annulments		Total Children
	Number	Percent	Number	Percent	Number*
Total	12,147	100.0	217	100.0	13,462
None	5,102	42.1	206	95.4	-
1	2,794	23.0	8	3.7	2,802
2	2,746	22.6	2	0.9	5,496
3	1,045	8.6	-	-	3,135
4 or More	445	3.7	-	-	2,029
Not Stated	15	n/a	1	n/a	n/a

*This represents the number of children reported in marriages ending in divorce or annulment.

Occurrence data.

Marriage Order

More than half (53.6 percent) the marriage dissolutions in 1986 involved first marriages for both partners and 12.0 percent were second marriages for both partners. Of the persons who received divorce decrees in 1986, 64.5 percent had been married only once, 24.8 percent had been married twice, and 10.7 percent were married three or more times. The percent distributions by number of times married for husbands and wives were nearly identical.

APPENDIX

Table 25
Estimated Population by County*
Kansas, 1985-1986

County of Residence	Year 1985	Year 1986	County of Residence	Year 1985	Year 1986
Kansas	2,450,000	2,463,000			
Allen	16,100	16,100	Lyon	37,800	38,200
Anderson	8,900	8,900	Marion	13,300	13,200
Atchison	17,900	17,900	Marshall	13,000	13,000
Barber	7,100	7,100	McPherson	27,900	28,100
Barton	33,300	33,500	Meade	4,700	4,700
Bourbon	16,100	16,200	Miami	22,700	22,900
Brown	11,800	11,800	Mitchell	8,000	8,000
Butler	47,500	47,500	Montgomery	42,500	42,500
Chase	3,200	3,200	Morris	6,500	6,400
Chautauqua	5,100	5,100	Morton	3,600	3,600
Cherokee	22,300	22,300	Nemaha	11,100	11,100
Cheyenne	3,600	3,600	Neosho	19,600	19,800
Clark	2,700	2,700	Ness	4,600	4,600
Clay	9,600	9,600	Norton	6,500	6,500
Cloud	12,100	12,000	Osage	16,300	16,500
Coffey	10,200	10,300	Osborne	5,800	5,700
Comanche	2,600	2,600	Ottawa	5,900	5,900
Cowley	37,800	38,100	Pawnee	8,200	8,200
Crawford	38,300	38,300	Phillips	7,300	7,200
Decatur	4,600	4,600	Pottawatomie	16,100	16,300
Dickinson	20,000	20,000	Pratt	11,000	11,100
Doniphan	9,100	9,100	Rawlins	4,000	4,000
Douglas	71,700	72,500	Reno	65,000	65,000
Edwards	4,100	4,100	Republic	7,100	7,000
Elk	3,800	3,800	Rice	11,700	11,600
Ellis	28,400	28,400	Riley	63,800	64,100
Ellsworth	6,600	6,600	Rooks	7,000	7,000
Finney	28,900	29,600	Rush	4,400	4,300
Ford	26,100	26,300	Russell	9,100	9,100
Franklin	22,600	22,800	Saline	50,400	50,600
Geary	30,300	30,300	Scott	5,900	5,900
Gove	3,700	3,700	Sedgwick	383,000	386,000
Graham	4,000	4,000	Seward	18,500	18,700
Grant	7,000	7,000	Shawnee	158,500	158,700
Gray	5,500	5,500	Sheridan	3,500	3,400
Greeley	1,900	1,900	Sherman	7,600	7,500
Greenwood	8,800	8,800	Smith	5,600	5,500
Hamilton	2,500	2,500	Stafford	5,800	5,800
Harper	7,900	7,900	Stanton	2,500	2,500
Harvey	31,700	32,000	Stevens	4,900	4,900
Haskell	3,900	3,900	Sumner	25,700	25,900
Hodgeman	2,200	2,200	Thomas	9,100	9,200
Jackson	12,000	12,100	Trego	4,300	4,300
Jefferson	16,500	16,800	Wabaunsee	6,900	6,900
Jewell	5,000	4,900	Wallace	2,000	2,000
Johnson	299,000	304,000	Washington	8,100	8,000
Kearny	3,900	4,000	Wichita	2,900	2,800
Kingman	9,100	9,100	Wilson	12,100	12,100
Kiowa	4,100	4,100	Woodson	4,500	4,500
Labette	25,900	25,900	Wyandotte	171,200	171,200
Lane	2,500	2,500			
Leavenworth	57,300	57,600			
Lincoln	3,900	3,900			
Linn	8,400	8,400			
Logan	3,400	3,400			

*The 1985 population estimates are revisions of earlier 1985 estimates and will differ from those previously published.

Source: Kansas Department of Health and Environment

Table 26
Live Births by Number and Rate*
By County of Residence
Kansas, 1982-1986

County of Residence	Year									
	1982		1983		1984		1985		1986	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate***	Number	Rate
Kansas.....	40,757	16.9	40,365	16.6	39,954	16.3	39,418	16.1	39,177	15.9
Allen.....	242	14.9	252	15.3	268	16.1	232	14.4	211	13.1
Anderson.....	158	17.9	130	14.6	121	13.5	98	11.0	105	11.8
Atchison.....	268	15.0	253	14.2	272	15.3	262	14.6	231	12.9
Barber.....	121	18.5	123	18.7	116	17.5	119	16.8	93	13.1
Barton.....	646	20.1	595	18.3	642	19.6	618	18.6	552	16.5
Bourbon.....	262	16.0	286	17.2	249	14.8	216	12.4	240	14.8
Brown.....	197	16.1	196	15.8	168	13.3	182	15.4	160	13.6
Butler.....	748	15.9	693	14.3	712	14.3	700	14.7	702	14.8
Chase.....	47	14.3	48	14.7	49	15.1	41	12.8	32	10.0
Chautauqua.....	73	14.3	75	14.3	70	13.0	43	8.4	64	12.5
Cherokee.....	299	13.4	290	12.9	307	13.5	265	11.9	311	13.9
Cheyenne.....	51	13.9	56	15.6	47	13.3	63	17.5	46	12.8
Clark.....	39	15.1	30	11.7	40	15.9	33	12.2	35	13.0
Clay.....	141	14.0	145	14.4	130	12.8	122	12.7	107	11.1
Cloud.....	162	13.0	185	15.0	186	15.2	144	11.9	145	12.1
Coffey.....	143	14.3	150	14.4	143	13.1	121	11.9	124	12.0
Comanche.....	34	13.6	38	15.3	31	12.7	37	14.2	26	10.0
Cowley.....	584	15.6	556	14.6	571	14.7	486	12.9	561	14.7
Crawford.....	544	14.4	557	14.7	529	13.9	500	13.1	473	12.3
Decatur.....	72	15.7	69	15.3	66	14.8	67	14.6	54	11.7
Dickinson.....	286	14.1	270	13.3	251	12.4	246	12.3	254	12.7
Doniphan.....	142	15.4	124	13.3	128	13.7	135	14.8	128	14.1
Douglas.....	948	13.9	934	13.6	977	14.1	963	13.4	1,041	14.4
Edwards.....	66	15.3	49	11.5	62	14.6	61	14.9	48	11.7
Elk.....	46	11.1	36	8.5	40	9.2	41	10.8	47	12.4
Ellis.....	500	18.6	464	17.2	491	18.2	493	17.4	461	16.2
Ellsworth.....	93	13.6	97	13.9	86	12.0	83	12.6	80	12.1
Finney.....	685	27.5	784	31.0	739	28.7	772	26.7	813	27.5
Ford.....	528	21.4	556	22.4	518	20.7	575	22.0	524	19.9
Franklin.....	339	15.3	351	15.6	331	14.5	355	15.7	305	13.4
**Geary.....	1,311	43.3	1,275	42.1	1,247	41.1	1,181	39.0	1,137	37.5
Gove.....	67	17.5	59	15.5	64	16.8	51	13.8	52	14.1
Graham.....	82	20.6	71	18.1	66	17.2	62	15.5	44	11.0
Grant.....	149	19.9	177	23.3	136	17.7	146	20.9	157	22.4
Gray.....	103	19.4	109	20.4	119	22.0	94	17.1	109	19.8
Greeley.....	27	14.1	42	21.7	26	13.3	32	16.8	29	15.3
Greenwood.....	118	14.1	118	14.3	112	13.7	111	12.6	85	9.7
Hamilton.....	33	12.2	42	15.7	39	14.7	40	16.0	37	14.8
Harper.....	109	13.5	103	12.6	117	14.1	98	12.4	100	12.7
Harvey.....	491	15.7	493	15.5	430	13.3	481	15.2	416	13.0
Haskell.....	96	23.2	72	17.5	75	18.3	78	20.0	63	16.2
Hodgeman.....	37	15.9	46	20.1	49	21.7	39	17.7	38	17.3
Jackson.....	183	15.3	171	14.2	178	14.7	204	17.0	156	12.9
Jefferson.....	242	14.9	255	15.2	195	11.2	196	11.9	202	12.0
Jewell.....	80	15.5	68	13.4	62	12.5	54	10.8	63	12.9
Johnson.....	3,965	13.9	4,220	14.5	4,329	14.6	4,626	15.5	4,906	16.1
Kearny.....	70	19.6	94	26.1	72	19.9	64	16.4	93	23.3
Kingman.....	143	15.6	140	15.2	149	16.0	132	14.5	126	13.8
Kiowa.....	71	18.2	63	16.3	57	14.9	56	13.7	51	12.4
Labette.....	371	14.3	409	15.6	359	13.6	372	14.4	347	13.4
Lane.....	40	16.0	44	17.8	34	13.9	42	16.8	34	13.6
Leavenworth....	799	14.6	805	14.7	784	14.4	778	13.6	807	14.0
Lincoln.....	46	11.3	37	9.2	45	11.4	38	9.7	32	8.2
Linn.....	104	12.4	119	14.2	120	14.3	89	10.6	96	11.4
Logan.....	69	19.4	49	13.8	51	14.5	47	13.8	53	15.6

Table 26 (cont.)
Live Births by Number and Rate*
By County of Residence
Kansas, 1982-1986

County of Residence	Year									
	1982		1983		1984		1985		1986	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate***	Number	Rate
Lyon	672	18.8	643	17.8	721	19.7	592	15.7	593	15.5
Marion	152	11.3	171	12.7	187	13.9	194	14.6	125	9.5
Marshall	236	18.9	199	16.1	185	15.1	192	14.8	157	12.1
McPherson	404	14.7	446	16.0	423	15.0	421	15.1	380	13.5
Meade	89	18.5	71	14.9	87	18.3	77	16.4	79	16.8
Miami	327	15.0	327	15.0	326	14.8	307	13.5	311	13.6
Mitchell	111	13.3	123	14.5	110	12.8	96	12.0	101	12.6
Montgomery	758	17.5	703	16.0	665	14.8	532	12.5	589	13.9
Morris	93	14.5	92	14.5	87	13.7	89	13.7	76	11.9
Morton	78	22.1	69	19.7	60	17.2	59	16.4	65	18.1
Nemaha	179	16.3	179	16.4	185	17.1	190	17.1	173	15.6
Neosho	306	16.0	297	15.4	302	15.6	283	14.4	254	12.8
Ness	81	18.4	83	19.0	78	18.0	84	18.3	67	14.6
Norton	77	11.8	88	13.6	83	12.9	89	13.7	80	12.3
Osage	212	13.5	234	14.6	201	12.3	203	12.5	203	12.3
Osborne	77	13.4	75	13.2	78	13.9	65	11.2	73	12.8
Ottawa	76	12.6	91	15.1	75	12.5	70	11.9	101	17.1
Pawnee	144	18.4	137	17.7	104	13.6	96	11.7	97	11.8
Phillips	106	14.2	105	14.2	104	14.2	87	11.9	89	12.4
Pottawatomie	255	16.1	280	17.1	273	16.1	244	15.2	294	18.0
Pratt	201	18.9	186	17.1	165	14.9	170	15.5	155	14.0
Rawlins	77	19.8	75	19.6	49	13.0	60	15.0	46	11.5
Reno	1,002	15.2	1,011	15.1	931	13.8	961	14.8	957	14.7
Republic	80	10.8	87	11.8	94	12.9	89	12.5	82	11.7
Rice	170	14.7	200	17.4	164	14.4	169	14.4	138	11.9
**Riley	1,002	15.2	1,030	15.6	955	14.4	1,045	16.4	1,005	15.7
Rooks	131	20.3	119	18.8	113	18.2	118	16.9	102	14.6
Rush	49	11.1	64	14.7	48	11.2	60	13.6	40	9.3
Russell	157	18.9	157	19.2	124	15.4	122	13.4	108	11.9
Saline	817	15.8	846	16.1	798	14.9	717	14.2	754	14.9
Scott	112	18.5	94	15.5	109	17.9	83	14.1	86	14.6
Sedgwick	7,238	19.6	6,923	18.6	7,327	19.5	7,251	18.9	7,286	18.9
Seward	439	24.8	383	21.4	385	21.2	403	21.8	426	22.8
Shawnee	2,480	15.6	2,429	15.2	2,363	14.7	2,363	14.9	2,322	14.6
Sheridan	61	16.5	64	17.4	51	14.0	47	13.4	51	15.0
Sherman	134	17.3	135	17.6	133	17.6	115	15.1	105	14.0
Smith	75	12.6	63	10.7	60	10.3	63	11.3	63	11.5
Stafford	83	15.0	70	12.9	90	16.8	96	16.6	73	12.6
Stanton	53	20.8	46	18.1	36	14.2	32	12.8	46	18.4
Stevens	86	16.9	93	17.9	92	17.3	77	15.7	79	16.1
Sumner	451	17.6	386	14.8	385	14.5	374	14.6	367	14.2
Thomas	167	19.4	164	18.9	145	16.6	154	16.9	129	14.0
Trego	63	15.5	76	19.0	70	17.8	49	11.4	45	10.5
Wabaunsee	94	13.7	90	13.0	99	14.3	115	16.7	81	11.7
Wallace	39	19.4	44	22.2	38	19.6	30	15.0	29	14.5
Washington	117	14.1	95	11.6	94	11.6	77	9.5	80	10.0
Wichita	64	21.4	58	20.1	57	20.6	50	17.2	36	12.9
Wilson	154	12.1	157	12.0	162	12.1	159	13.1	146	12.1
Woodson	58	13.0	81	18.0	63	13.9	68	15.1	54	12.0
Wyandotte	3,400	19.6	3,253	18.9	3,165	18.4	3,147	18.4	3,173	18.5

*Rate per 1,000 population.

**All births occurring at Irwin Army Hospital to Ft. Riley residents were recorded for Geary County even when Riley was the county of residence.

***1985 rates have been recalculated based on the revised population estimates and will differ from those previously published.

Table 27
Live Births by Age Group of Mother
By County of Residence of Mother
Kansas, 1986

County of Residence	Total	Age Group of Mother								
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	N.S.
Kansas	39,177	73	4,417	12,657	13,034	6,901	1,852	235	6	2
Allen.....	211	1	27	84	62	25	10	2	-	-
Anderson.....	105	-	14	39	30	16	6	-	-	-
Atchison.....	231	-	34	93	60	30	12	2	-	-
Barber.....	93	-	14	24	37	18	-	-	-	-
Barton.....	552	-	54	179	208	85	23	3	-	-
Bourbon.....	240	1	33	89	69	31	14	3	-	-
Brown.....	160	-	18	50	52	28	12	-	-	-
Butler.....	702	-	82	219	265	108	24	4	-	-
Chase.....	32	-	2	14	10	4	2	-	-	-
Chautauqua....	64	-	13	24	15	8	4	-	-	-
Cherokee.....	311	-	71	117	79	33	7	3	1	-
Cheyenne.....	46	-	5	6	24	7	4	-	-	-
Clark.....	35	-	5	14	6	9	1	-	-	-
Clay.....	107	-	14	37	25	25	6	-	-	-
Cloud.....	145	-	17	44	44	25	14	1	-	-
Coffey.....	124	1	13	46	38	19	6	1	-	-
Comanche.....	26	-	-	12	12	1	1	-	-	-
Cowley.....	561	1	86	229	155	76	11	3	-	-
Crawford.....	473	-	78	156	156	62	19	2	-	-
Decatur.....	54	-	4	21	19	9	1	-	-	-
Dickinson.....	254	1	26	91	69	53	14	-	-	-
Doniphan.....	128	-	11	49	44	19	3	2	-	-
Douglas.....	1,041	2	87	308	378	200	61	5	-	-
Edwards.....	48	-	5	14	17	10	2	-	-	-
Elk.....	47	-	7	15	14	6	4	1	-	-
Ellis.....	461	-	19	151	164	106	17	4	-	-
Ellsworth.....	80	-	11	23	29	15	2	-	-	-
Finney.....	813	3	123	288	245	116	32	6	-	-
Ford.....	524	1	61	198	171	69	21	3	-	-
Franklin.....	305	-	35	113	106	40	11	-	-	-
*Geary.....	1,137	3	152	516	333	105	24	3	1	-
Gove.....	52	-	3	14	23	9	2	1	-	-
Graham.....	44	-	5	13	23	3	-	-	-	-
Grant.....	157	-	24	58	47	21	5	2	-	-
Gray.....	109	-	8	39	36	18	8	-	-	-
Greeley.....	29	-	1	11	15	1	1	-	-	-
Greenwood.....	85	-	13	38	24	8	1	1	-	-
Hamilton.....	37	-	3	10	12	11	1	-	-	-
Harper.....	100	-	14	30	33	18	4	1	-	-
Harvey.....	416	-	35	103	163	90	22	3	-	-
Haskell..	63	-	4	33	14	10	2	-	-	-
Hodgeman.....	38	-	4	13	12	6	3	-	-	-
Jackson.....	156	-	17	59	46	24	8	2	-	-
Jefferson.....	202	-	24	83	56	25	13	1	-	-
Jewell.....	63	-	3	19	24	15	2	-	-	-
Johnson.....	4,906	3	241	1,004	1,850	1,389	387	31	1	-
Kearny.....	93	-	13	30	30	16	4	-	-	-
Kingman.....	126	-	12	36	55	15	6	2	-	-
Kiowa.....	51	-	4	20	16	8	2	1	-	-
Labette.....	347	-	39	138	112	47	10	1	-	-
Lane.....	34	-	2	14	10	7	1	-	-	-
Leavenworth...	807	1	86	279	242	142	51	5	1	-
Lincoln.....	32	-	1	6	12	12	1	-	-	-
Linn.....	96	-	12	32	28	15	7	2	-	-
Logan.....	53	-	1	17	19	14	1	1	-	-

Table 27 (cont.)
Live Births by Age Group of Mother
By County of Residence of Mother
Kansas, 1986

County of Residence	Total	Age Group of Mother								
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	N.S.
Lyon.....	593	1	67	207	191	102	24	1	-	-
Marion.....	125	-	11	45	46	16	7	-	-	-
Marshall.....	157	-	14	46	49	34	10	4	-	-
McPherson.....	380	-	17	110	141	94	16	2	-	-
Meade.....	79	-	4	24	32	14	4	1	-	-
Miami.....	311	-	37	110	106	44	12	2	-	-
Mitchell.....	101	-	5	32	37	23	4	-	-	-
Montgomery....	589	1	107	194	169	93	22	3	-	-
Morris.....	76	-	8	26	28	11	3	-	-	-
Morton.....	65	-	8	27	19	8	2	1	-	-
Nemaha.....	173	-	5	66	62	33	5	2	-	-
Neosho.....	254	1	32	111	74	31	5	-	-	-
Ness.....	67	1	3	19	28	13	3	-	-	-
Norton.....	80	-	4	32	23	15	5	1	-	-
Osage.....	203	-	22	74	76	23	7	1	-	-
Osborne.....	73	-	5	30	20	15	2	1	-	-
Ottawa.....	101	-	12	25	51	9	4	-	-	-
Pawnee.....	97	-	11	21	31	29	5	-	-	-
Phillips.....	89	-	7	32	31	14	3	2	-	-
Pottawatomie..	294	1	36	98	94	56	7	2	-	-
Pratt.....	155	-	19	51	52	28	3	2	-	-
Rawlins.....	46	-	6	9	18	9	3	1	-	-
Reno.....	957	3	104	333	319	149	46	2	-	1
Republic.....	82	-	9	24	34	14	1	-	-	-
Rice.....	138	-	17	57	41	19	2	2	-	-
*Riley.....	1,005	2	82	392	323	155	47	4	-	-
Rooks.....	102	-	12	40	28	15	6	1	-	-
Rush.....	40	-	-	16	12	8	4	-	-	-
Russell.....	108	-	11	41	31	17	6	2	-	-
Saline.....	754	2	68	236	285	129	31	3	-	-
Scott.....	86	-	7	32	31	14	2	-	-	-
Sedgwick.....	7,286	11	919	2,260	2,404	1,307	339	46	-	-
Seward.....	426	1	59	159	145	53	7	1	1	-
Shawnee.....	2,322	10	287	702	755	427	125	15	1	-
Sheridan.....	51	-	2	22	13	14	-	-	-	-
Sherman.....	105	-	13	40	29	18	4	1	-	-
Smith.....	63	-	5	22	18	13	4	1	-	-
Stafford.....	73	-	6	32	21	11	2	1	-	-
Stanton.....	46	-	2	18	22	4	-	-	-	-
Stevens.....	79	-	10	32	23	9	4	1	-	-
Sumner.....	367	1	46	106	130	68	13	3	-	-
Thomas.....	129	-	16	33	48	27	3	2	-	-
Trego.....	45	-	4	19	14	8	-	-	-	-
Wabaunsee.....	81	-	7	23	31	12	7	1	-	-
Wallace.....	29	-	6	6	13	4	-	-	-	-
Washington....	80	-	7	19	41	8	5	-	-	-
Wichita.....	36	-	2	13	12	8	1	-	-	-
Wilson.....	146	-	15	61	40	21	8	1	-	-
Woodson.....	54	-	4	17	20	9	3	1	-	-
Wyandotte.....	3,173	20	567	1,151	935	364	116	19	-	1

*All births occurring at Irwin Army Hospital to Ft. Riley residents were recorded for Geary County even when Riley was the county of residence.

Table 28
Out-of-Wedlock Births by Age Group of Mother
By County of Residence of Mother
Kansas, 1986

County of Residence	Total	Age Group of Mother								
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Not Stated
Kansas.....	6,549	71	2,342	2,491	1,101	381	137	25	-	1
Allen.....	39	1	13	20	2	2	1	-	-	-
Anderson.....	17	-	5	11	-	1	-	-	-	-
Atchison.....	47	-	17	20	8	2	-	-	-	-
Barber.....	7	-	2	3	1	1	-	-	-	-
Barton.....	76	-	31	25	16	2	1	1	-	-
Bourbon.....	36	1	13	12	8	2	-	-	-	-
Brown.....	28	-	10	14	1	2	1	-	-	-
Butler.....	87	-	35	30	16	6	-	-	-	-
Chase.....	1	-	1	-	-	-	-	-	-	-
Chautauqua....	8	-	2	5	1	-	-	-	-	-
Cherokee.....	68	-	34	17	9	5	-	3	-	-
Cheyenne.....	5	-	3	1	1	-	-	-	-	-
Clark.....	4	-	3	-	-	1	-	-	-	-
Clay.....	5	-	1	3	-	1	-	-	-	-
Cloud.....	14	-	6	6	-	1	1	-	-	-
Coffey.....	19	1	5	8	4	1	-	-	-	-
Comanche.....	-	-	-	-	-	-	-	-	-	-
Cowley.....	96	1	34	35	20	4	2	-	-	-
Crawford.....	81	-	34	29	10	6	-	2	-	-
Decatur.....	6	-	2	4	-	-	-	-	-	-
Dickinson.....	19	1	9	5	4	-	-	-	-	-
Doniphan.....	19	-	3	11	1	3	1	-	-	-
Douglas.....	152	2	49	62	28	7	3	1	-	-
Edwards.....	6	-	4	-	2	-	-	-	-	-
Elk.....	5	-	1	1	2	1	-	-	-	-
Ellis.....	38	-	6	19	10	2	1	-	-	-
Ellsworth.....	12	-	6	2	4	-	-	-	-	-
Finney.....	150	3	48	54	27	14	4	-	-	-
Ford.....	96	1	33	32	19	8	3	-	-	-
Franklin.....	46	-	17	17	9	3	-	-	-	-
*Geary.....	128	3	31	64	23	6	1	-	-	-
Gove.....	4	-	2	-	1	-	1	-	-	-
Graham.....	7	-	3	3	1	-	-	-	-	-
Grant.....	14	-	7	5	-	1	1	-	-	-
Gray.....	5	-	3	1	1	-	-	-	-	-
Greeley.....	-	-	-	-	-	-	-	-	-	-
Greenwood.....	16	-	2	10	4	-	-	-	-	-
Hamilton.....	4	-	1	1	-	2	-	-	-	-
Harper.....	9	-	4	2	3	-	-	-	-	-
Harvey.....	48	-	19	14	12	2	1	-	-	-
Haskell.....	1	-	-	1	-	-	-	-	-	-
Hodgeman.....	4	-	2	2	-	-	-	-	-	-
Jackson.....	21	-	11	6	2	1	1	-	-	-
Jefferson.....	27	-	13	11	2	-	1	-	-	-
Jewell.....	3	-	1	1	-	-	1	-	-	-
Johnson.....	393	3	131	152	63	25	18	1	-	-
Kearny.....	17	-	7	7	3	-	-	-	-	-
Kingman.....	18	-	7	7	4	-	-	-	-	-
Kiowa.....	1	-	1	-	-	-	-	-	-	-
Labette.....	57	-	19	28	9	1	-	-	-	-
Lane.....	1	-	1	-	-	-	-	-	-	-
Leavenworth...	143	1	44	61	19	13	5	-	-	-
Lincoln.....	1	-	-	-	-	1	-	-	-	-
Linn.....	13	-	2	6	2	1	2	-	-	-
Logan.....	3	-	-	-	2	1	-	-	-	-

Table 28 (cont.)
Out-of-Wedlock Births by Age Group of Mother
By County of Residence of Mother
Kansas, 1986

County of Residence	Total	Age Group of Mother								
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Not Stated
Lyon.....	83	1	26	33	18	4	1	-	-	-
Marion.....	13	-	5	5	2	1	-	-	-	-
Marshall.....	12	-	6	3	2	-	-	1	-	-
McPherson.....	25	-	6	12	5	1	-	1	-	-
Meade.....	2	-	2	-	-	-	-	-	-	-
Miami.....	38	-	15	14	5	4	-	-	-	-
Mitchell.....	3	-	1	2	-	-	-	-	-	-
Montgomery....	124	1	50	45	22	4	2	-	-	-
Morris.....	9	-	3	3	2	1	-	-	-	-
Morton.....	12	-	5	6	-	1	-	-	-	-
Nemaha.....	8	-	2	4	1	-	1	-	-	-
Neosho.....	38	1	14	16	5	2	-	-	-	-
Ness.....	5	1	1	1	1	1	-	-	-	-
Norton.....	8	-	2	2	2	1	1	-	-	-
Osage.....	21	-	7	9	5	-	-	-	-	-
Osborne.....	5	-	2	2	1	-	-	-	-	-
Ottawa.....	5	-	4	1	-	-	-	-	-	-
Pawnee.....	12	-	7	2	3	-	-	-	-	-
Phillips.....	8	-	4	1	1	2	-	-	-	-
Pottawatomie..	35	1	24	8	2	-	-	-	-	-
Pratt.....	20	-	8	8	4	-	-	-	-	-
Rawlins.....	3	-	3	-	-	-	-	-	-	-
Reno.....	154	3	62	59	19	6	4	-	-	1
Republic.....	9	-	4	3	2	-	-	-	-	-
Rice.....	13	-	8	4	1	-	-	-	-	-
*Riley.....	93	2	26	38	20	4	3	-	-	-
Rooks.....	11	-	7	3	-	-	1	-	-	-
Rush.....	2	-	-	-	-	2	-	-	-	-
Russell.....	16	-	4	9	1	1	1	-	-	-
Saline.....	130	2	39	57	28	4	-	-	-	-
Scott.....	6	-	2	3	-	1	-	-	-	-
Sedgwick.....	1,538	10	575	561	257	102	28	5	-	-
Seward.....	77	1	24	34	12	3	3	-	-	-
Shawnee.....	568	9	207	205	99	38	6	4	-	-
Sheridan.....	2	-	-	2	-	-	-	-	-	-
Sherman.....	15	-	6	4	3	1	1	-	-	-
Smith.....	5	-	2	1	1	-	-	1	-	-
Stafford.....	7	-	2	4	1	-	-	-	-	-
Stanton.....	2	-	1	-	1	-	-	-	-	-
Stevens.....	6	-	2	4	-	-	-	-	-	-
Sumner.....	40	1	19	12	7	1	-	-	-	-
Thomas.....	11	-	4	5	-	1	-	1	-	-
Trego.....	2	-	1	1	-	-	-	-	-	-
Wabaunsee.....	7	-	3	2	2	-	-	-	-	-
Wallace.....	2	-	1	1	-	-	-	-	-	-
Washington....	3	-	2	1	-	-	-	-	-	-
Wichita.....	2	-	-	2	-	-	-	-	-	-
Wilson.....	16	-	5	5	4	2	-	-	-	-
Woodson.....	8	-	3	3	1	-	1	-	-	-
Wyandotte.....	1,190	20	398	463	207	64	34	4	-	-

*All births occurring at Irwin Army Hospital to Ft. Riley residents were recorded for Geary County even when Riley was the county of residence.

Table 29
Reported Induced Abortions by Age Group of Patient
By County of Residence
Kansas, 1986

County of Residence	Total	Age Group of Patient								
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	N.S.
Kansas.....	4,245	28	1,217	1,467	840	420	226	40	3	4
Allen.....	19	-	9	3	6	1	-	-	-	-
Anderson.....	6	-	2	4	-	-	-	-	-	-
Atchison.....	17	-	7	4	4	2	-	-	-	-
Barber.....	1	-	1	-	-	-	-	-	-	-
Barton.....	38	-	16	9	10	1	2	-	-	-
Bourbon.....	21	-	9	6	2	2	2	-	-	-
Brown.....	9	-	1	4	1	-	1	1	1	-
Butler.....	29	-	13	4	9	3	-	-	-	-
Chase.....	2	-	-	-	1	1	-	-	-	-
Chautauqua.....	2	-	1	-	-	-	1	-	-	-
Cherokee.....	22	-	9	6	6	-	1	-	-	-
Cheyenne.....	-	-	-	-	-	-	-	-	-	-
Clark.....	1	-	1	-	-	-	-	-	-	-
Clay.....	3	-	2	-	-	-	1	-	-	-
Cloud.....	5	-	3	1	-	-	1	-	-	-
Coffey.....	6	-	1	2	1	2	-	-	-	-
Comanche.....	-	-	-	-	-	-	-	-	-	-
Cowley.....	40	-	15	19	4	1	1	-	-	-
Crawford.....	67	1	14	24	10	13	4	1	-	-
Decatur.....	-	-	-	-	-	-	-	-	-	-
Dickinson.....	8	-	1	3	2	2	-	-	-	-
Doniphan.....	11	-	4	5	2	-	-	-	-	-
Douglas.....	263	1	67	111	46	19	16	3	-	-
Edwards.....	1	-	-	-	-	1	-	-	-	-
Elk.....	2	-	1	-	1	-	-	-	-	-
Ellis.....	39	-	10	19	5	3	2	-	-	-
Ellsworth.....	2	-	-	1	1	-	-	-	-	-
Finney.....	51	-	13	19	8	7	4	-	-	-
Ford.....	37	-	14	11	7	3	2	-	-	-
Franklin.....	32	-	14	7	5	1	3	2	-	-
Geary.....	35	1	8	16	7	2	1	-	-	-
Gove.....	1	-	-	-	1	-	-	-	-	-
Graham.....	2	-	1	-	-	1	-	-	-	-
Grant.....	1	-	1	-	-	-	-	-	-	-
Gray.....	3	-	1	-	-	2	-	-	-	-
Greeley.....	-	-	-	-	-	-	-	-	-	-
Greenwood.....	7	-	5	1	1	-	-	-	-	-
Hamilton.....	4	-	1	2	-	-	1	-	-	-
Harper.....	2	-	-	1	1	-	-	-	-	-
Harvey.....	20	-	8	4	4	2	2	-	-	-
Haskell.....	3	-	1	-	1	1	-	-	-	-
Hodgeman.....	-	-	-	-	-	-	-	-	-	-
Jackson.....	14	-	5	5	2	2	-	-	-	-
Jefferson.....	24	-	9	5	4	3	2	1	-	-
Jewell.....	-	-	-	-	-	-	-	-	-	-
Johnson.....	1,004	10	267	323	217	121	57	9	-	-
Kearny.....	7	-	2	3	1	1	-	-	-	-
Kingman.....	4	-	1	-	1	1	1	-	-	-
Kiowa.....	3	-	2	1	-	-	-	-	-	-
Labette.....	14	-	2	6	3	-	2	1	-	-
Lane.....	1	-	1	-	-	-	-	-	-	-
Leavenworth....	109	-	36	36	19	9	8	1	-	-
Lincoln.....	1	-	-	1	-	-	-	-	-	-
Linn.....	13	2	6	2	3	-	-	-	-	-
Logan.....	1	-	-	1	-	-	-	-	-	-

Table 29 (cont.)
Reported Induced Abortions by Age Group of Patient
By County of Residence
Kansas, 1986

County of Residence	Total	Age Group of Patient								
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	N.S.
Lyon.....	88	-	24	50	8	6	-	-	-	-
Marion.....	10	-	3	4	1	-	-	2	-	-
Marshall.....	5	-	2	1	1	1	-	-	-	-
McPherson.....	32	-	11	9	9	1	1	1	-	-
Meade.....	1	-	-	1	-	-	-	-	-	-
Miami.....	46	1	14	20	5	5	1	-	-	-
Mitchell.....	6	-	2	2	1	-	1	-	-	-
Montgomery.....	34	1	15	7	3	5	3	-	-	-
Morris.....	5	-	2	-	-	1	2	-	-	-
Morton.....	1	-	-	-	-	-	1	-	-	-
Nemaha.....	7	-	2	3	-	2	-	-	-	-
Neosho.....	21	-	7	7	5	2	-	-	-	-
Ness.....	4	-	3	1	-	-	-	-	-	-
Norton.....	1	-	-	1	-	-	-	-	-	-
Osage.....	24	-	6	7	7	3	1	-	-	-
Osborne.....	1	-	1	-	-	-	-	-	-	-
Ottawa.....	2	-	-	1	-	1	-	-	-	-
Pawnee.....	5	-	3	1	1	-	-	-	-	-
Phillips.....	5	-	1	1	-	2	1	-	-	-
Pottawatomie...	17	-	8	7	2	-	-	-	-	-
Pratt.....	10	1	5	3	-	-	-	1	-	-
Rawlins.....	1	-	-	1	-	-	-	-	-	-
Reno.....	77	1	27	27	9	4	6	2	-	1
Republic.....	2	-	1	-	-	1	-	-	-	-
Rice.....	4	-	1	3	-	-	-	-	-	-
Riley.....	167	-	34	78	32	12	10	1	-	-
Rooks.....	2	-	-	1	-	1	-	-	-	-
Rush.....	2	-	1	-	-	1	-	-	-	-
Russell.....	5	-	-	2	-	2	1	-	-	-
Saline.....	44	-	17	16	2	3	5	-	-	1
Scott.....	2	-	2	-	-	-	-	-	-	-
Sedgwick.....	506	2	116	192	118	54	19	2	1	2
Seward.....	38	1	16	12	6	2	1	-	-	-
Shawnee.....	485	1	138	154	97	54	34	6	1	-
Sheridan.....	-	-	-	-	-	-	-	-	-	-
Sherman.....	1	-	-	-	-	1	-	-	-	-
Smith.....	1	-	-	-	-	1	-	-	-	-
Stafford.....	2	-	1	-	1	-	-	-	-	-
Stanton.....	-	-	-	-	-	-	-	-	-	-
Stevens.....	1	-	1	-	-	-	-	-	-	-
Sumner.....	14	-	5	4	3	2	-	-	-	-
Thomas.....	2	-	1	1	-	-	-	-	-	-
Trego.....	1	-	1	-	-	-	-	-	-	-
Wabaunsee.....	8	-	4	2	-	1	1	-	-	-
Wallace.....	-	-	-	-	-	-	-	-	-	-
Washington.....	4	-	3	1	-	-	-	-	-	-
Wichita.....	1	-	-	-	-	1	-	-	-	-
Wilson.....	15	-	5	4	4	1	1	-	-	-
Woodson.....	2	-	-	1	1	-	-	-	-	-
Wyandotte.....	516	5	145	171	127	42	21	5	-	-
Not Stated.....	10	-	4	2	1	1	1	1	-	-

Table 30
Perinatal Period III Deaths
By County of Residence
Kansas, 1986

County of Residence	Total	Perinatal Period III Deaths		County of Residence	Total	Perinatal Period III Deaths	
		Fetal Deaths	Hebdomadal Deaths			Fetal Deaths	Hebdomadal Deaths
Kansas	395	242	153				
Allen	2	2	-	Lyon	7	5	2
Anderson	2	1	1	Marion	-	-	-
Atchison	2	2	-	Marshall	3	2	1
Barber	3	1	2	McPherson	7	4	3
Barton	4	3	1	Meade	-	-	-
Bourbon	1	1	-	Miami	3	1	2
Brown	2	1	1	Mitchell	-	-	-
Butler	6	3	3	Montgomery	6	2	4
Chase	1	1	-	Morris	-	-	-
Chautauqua	-	-	-	Morton	1	1	-
Cherokee	2	-	2	Nemaha	4	3	1
Cheyenne	3	3	-	Neosho	-	-	-
Clark	-	-	-	Ness	2	2	-
Clay	1	1	-	Norton	1	-	1
Cloud	-	-	-	Osage	3	1	2
Coffey	-	-	-	Osborne	-	-	-
Comanche	1	1	-	Ottawa	-	-	-
Cowley	2	1	1	Pawnee	1	1	-
Crawford	5	5	-	Phillips	-	-	-
Decatur	-	-	-	Pottawatomie	6	3	3
Dickinson	2	1	1	Pratt	2	1	1
Doniphan	-	-	-	Rawlins	-	-	-
Douglas	9	6	3	Reno	12	8	4
Edwards	-	-	-	Republic	-	-	-
Elk	-	-	-	Rice	3	2	1
Ellis	4	1	3	Riley	10	7	3
Ellsworth	1	1	-	Rooks	-	-	-
Finney	10	5	5	Rush	-	-	-
Ford	7	2	5	Russell	1	1	-
Franklin	-	-	-	Saline	7	4	3
Geary	12	6	6	Scott	1	-	1
Gove	-	-	-	Sedgwick	90	47	43
Graham	-	-	-	Seward	1	1	-
Grant	2	2	-	Shawnee	31	17	14
Gray	-	-	-	Sheridan	-	-	-
Greeley	-	-	-	Sherman	1	1	-
Greenwood	1	-	1	Smith	-	-	-
Hamilton	1	1	-	Stafford	2	1	1
Harper	-	-	-	Stanton	-	-	-
Harvey	3	3	-	Stevens	1	1	-
Haskell	-	-	-	Sumner	8	6	2
Hodgeman	-	-	-	Thomas	2	1	1
Jackson	-	-	-	Trego	-	-	-
Jefferson	3	2	1	Wabaunsee	1	-	1
Jewell	1	1	-	Wallace	-	-	-
Johnson	34	26	8	Washington	1	1	-
Kearny	2	1	1	Wichita	-	-	-
Kingman	-	-	-	Wilson	-	-	-
Kiowa	-	-	-	Woodson	-	-	-
Labette	-	-	-	Wyandotte	33	22	11
Lane	1	1	-				
Leavenworth	11	9	2				
Lincoln	-	-	-				
Linn	2	1	1				
Logan	1	1	-				

Table 31
Infant Deaths by Component
By County of Residence
Kansas, 1986

County of Residence	Components and Infant Age				
	Hebdomadal Deaths	Post-Hebdomadal Deaths	Neonatal Deaths	Post-Neonatal Deaths	Total Infant Deaths
	Under 7 days	7-27 days	Under 28 days	28-364 days	Under 1 year
Kansas	153	37	190	147	337
Allen	-	1	1	-	1
Anderson	1	-	1	-	1
Atchison	-	-	-	-	-
Barber	2	-	2	-	2
Barton	1	-	1	2	3
Bourbon	-	-	-	-	-
Brown	1	-	1	1	2
Butler	3	1	4	5	9
Chase	-	-	-	-	-
Chautauqua	-	-	-	-	-
Cherokee	2	-	2	3	5
Cheyenne	-	-	-	1	1
Clark	-	1	1	-	1
Clay	-	-	-	1	1
Cloud	-	-	-	1	1
Coffey	-	-	-	-	-
Comanche	-	-	-	-	-
Cowley	1	1	2	3	5
Crawford	-	-	-	2	2
Decatur	-	-	-	-	-
Dickinson	1	1	2	1	3
Doniphan	-	-	-	-	-
Douglas	3	1	4	2	6
Edwards	-	-	-	-	-
Elk	-	-	-	-	-
Ellis	3	-	3	1	4
Ellsworth	-	-	-	1	1
Finney	5	1	6	3	9
Ford	5	2	7	6	13
Franklin	-	-	-	-	-
Geary	6	3	9	3	12
Gove	-	-	-	-	-
Graham	-	-	-	-	-
Grant	-	1	1	-	1
Gray	-	-	-	-	-
Greeley	-	-	-	-	-
Greenwood	1	-	1	-	1
Hamilton	-	-	-	-	-
Harper	-	-	-	2	2
Harvey	-	-	-	3	3
Haskell	-	-	-	1	1
Hodgeman	-	-	-	-	-
Jackson	-	1	1	-	1
Jefferson	1	-	1	1	2
Jewell	-	-	-	-	-
Johnson	8	4	12	7	19
Kearny	1	-	1	-	1
Kingman	-	-	-	2	2
Kiowa	-	-	-	-	-
Labette	-	1	1	1	2
Lane	-	-	-	-	-
Leavenworth	2	-	2	4	6
Lincoln	-	-	-	-	-
Linn	1	-	1	-	1
Logan	-	-	-	-	-

Table 31 (cont.)
Infant Deaths by Component
By County of Residence
Kansas, 1986

County of Residence	Components and Infant Age				
	Hebdomadal Deaths	Post-Hebdomadal Deaths	Neonatal Deaths	Post-Neonatal Deaths	Total Infant Deaths
	Under 7 days	7-27 days	Under 28 days	28-364 days	Under 1 year
Lyon	2	1	3	2	5
Marion	-	-	-	-	-
Marshall	1	-	1	1	2
McPherson	3	-	3	1	4
Meade	-	-	-	-	-
Miami	2	-	2	1	3
Mitchell	-	-	-	-	-
Montgomery	4	1	5	2	7
Morris	-	-	-	-	-
Morton	-	-	-	-	-
Nemaha	1	-	1	-	1
Neosho	-	2	2	-	2
Ness	-	-	-	-	-
Norton	1	-	1	-	1
Osage	2	-	2	1	3
Osborne	-	-	-	-	-
Ottawa	-	-	-	-	-
Pawnee	-	-	-	-	-
Phillips	-	-	-	-	-
Pottawatomie	3	-	3	1	4
Pratt	1	-	1	1	2
Rawlins	-	-	-	1	1
Reno	4	1	5	7	12
Republic	-	-	-	-	-
Rice	1	-	1	-	1
Riley	3	1	4	4	8
Rooks	-	-	-	-	-
Rush	-	-	-	-	-
Russell	-	-	-	-	-
Saline	3	-	3	3	6
Scott	1	-	1	-	1
Sedgwick	43	7	50	28	78
Seward	-	-	-	2	2
Shawnee	14	1	15	10	25
Sheridan	-	-	-	-	-
Sherman	-	-	-	-	-
Smith	-	-	-	-	-
Stafford	1	-	1	-	1
Stanton	-	-	-	1	1
Stevens	-	-	-	-	-
Sumner	2	1	3	2	5
Thomas	1	-	1	1	2
Trego	-	-	-	-	-
Wabaunsee	1	-	1	-	1
Wallace	-	-	-	-	-
Washington	-	-	-	-	-
Wichita	-	-	-	-	-
Wilson	-	-	-	1	1
Woodson	-	-	-	-	-
Wyandotte	11	3	14	20	34

Table 32
Deaths by Number and Rate*
By County of Residence
Kansas, 1982-1986

County of Residence	Year									
	1982		1983		1984		1985		1986	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate**	Number	Rate
Kansas.....	21,700	9.0	21,816	9.0	22,184	9.1	21,808	8.9	22,133	9.0
Allen.....	200	12.3	182	11.0	186	11.1	195	12.1	184	11.4
Anderson.....	131	14.8	131	14.7	114	12.7	122	13.7	97	10.9
Atchison.....	201	11.2	211	11.8	214	12.0	211	11.8	199	11.1
Barber.....	101	15.4	84	12.8	88	13.3	64	9.0	98	13.8
Barton.....	307	9.5	311	9.6	340	10.4	316	9.5	302	9.0
Bourbon.....	222	13.5	248	14.9	227	13.5	190	11.8	195	12.0
Brown.....	157	12.9	174	14.0	170	13.5	154	13.1	178	15.1
Butler.....	412	8.7	358	7.4	388	7.8	367	7.7	384	8.1
Chase.....	63	19.2	40	12.3	41	12.7	54	16.9	54	16.9
Chautauqua.....	94	18.4	81	15.5	76	14.1	91	17.8	81	15.9
Cherokee.....	285	12.8	274	12.2	320	14.1	248	11.1	297	13.3
Cheyenne.....	39	10.6	49	13.6	55	15.6	41	11.4	49	13.6
Clark.....	38	14.7	41	16.0	36	14.3	38	14.1	26	9.6
Clay.....	118	11.7	131	13.0	141	13.9	120	12.5	143	14.9
Cloud.....	165	13.3	163	13.2	191	15.6	163	13.5	165	13.8
Coffey.....	116	11.6	102	9.8	100	9.2	113	11.1	105	10.2
Comanche.....	36	14.4	41	16.6	29	11.9	38	14.6	41	15.8
Cowley.....	435	11.6	435	11.4	456	11.8	395	10.4	416	10.9
Crawford.....	480	12.7	514	13.6	506	13.3	446	11.6	442	11.5
Decatur.....	60	13.1	42	9.3	57	12.7	62	13.5	59	12.8
Dickinson.....	254	12.5	257	12.7	224	11.1	248	12.4	233	11.7
Doniphan.....	97	10.5	98	10.5	107	11.5	96	10.5	100	11.0
Douglas.....	345	5.1	364	5.3	377	5.5	428	6.0	416	5.7
Edwards.....	63	14.6	49	11.5	54	12.7	64	15.6	53	12.9
Elk.....	53	12.8	75	17.6	68	15.6	53	13.9	66	17.4
Ellis.....	179	6.7	201	7.5	190	7.0	189	6.7	184	6.5
Ellsworth.....	111	16.3	104	14.9	90	12.5	86	13.0	109	16.5
Finney.....	156	6.3	151	6.0	169	6.6	175	6.1	164	5.5
Ford.....	188	7.6	209	8.4	247	9.9	210	8.0	213	8.1
Franklin.....	254	11.5	250	11.1	248	10.9	231	10.2	220	9.6
Geary.....	206	6.8	206	6.8	207	6.8	201	6.6	195	6.4
Gove.....	45	11.7	30	7.9	32	8.4	41	11.1	32	8.6
Graham.....	47	11.8	53	13.5	38	9.9	40	10.0	33	8.3
Grant.....	53	7.1	42	5.5	35	4.5	52	7.4	46	6.6
Gray.....	36	6.8	46	8.6	43	8.0	38	6.9	35	6.4
Greeley.....	15	7.9	13	6.7	28	14.3	12	6.3	16	8.4
Greenwood.....	135	16.1	145	17.6	140	17.2	111	12.6	135	15.3
Hamilton.....	28	10.4	26	9.7	32	12.0	32	12.8	31	12.4
Harper.....	119	14.8	122	14.9	145	17.5	94	11.9	113	14.3
Harvey.....	271	8.7	251	7.9	291	9.0	323	10.2	296	9.3
Haskell.....	30	7.2	21	5.1	22	5.4	24	6.2	32	8.2
Hodgeman.....	33	14.2	37	16.2	35	15.5	20	9.1	25	11.4
Jackson.....	116	9.7	125	10.4	125	10.3	137	11.4	147	12.1
Jefferson.....	176	10.8	162	9.6	157	9.1	157	9.5	134	8.0
Jewell.....	77	14.9	87	17.2	81	16.3	67	13.4	77	15.7
Johnson.....	1,607	5.6	1,562	5.4	1,638	5.5	1,662	5.6	1,694	5.6
Kearny.....	27	7.6	28	7.8	24	6.6	29	7.4	30	7.5
Kingman.....	100	10.9	106	11.5	109	11.7	105	11.5	93	10.2
Kiowa.....	30	7.7	47	12.2	52	13.6	47	11.5	49	12.0
Labette.....	268	10.3	312	11.9	287	10.9	324	12.5	282	10.9
Lane.....	24	9.6	31	12.5	36	14.7	27	10.8	30	12.0
Leavenworth.....	452	8.2	427	7.8	461	8.5	410	7.2	390	6.8
Lincoln.....	57	14.0	58	14.4	67	16.9	71	18.2	76	19.5
Linn.....	99	11.8	117	14.0	104	12.4	108	12.9	121	14.4
Logan.....	36	10.1	35	9.9	38	10.8	37	10.9	46	13.5

Table 32 (cont.)
Deaths by Number and Rate*
By County of Residence
Kansas, 1982-1986

County of Residence	Year									
	1982		1983		1984		1985		1986	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate**	Number	Rate
Lyon	310	8.7	296	8.2	256	7.0	287	7.6	295	7.7
Marion	168	12.5	141	10.5	172	12.8	179	13.5	210	15.9
Marshall	193	15.5	170	13.8	170	13.9	167	12.8	179	13.8
McPherson	257	9.3	254	9.1	257	9.1	267	9.6	268	9.5
Meade	69	14.4	47	9.8	50	10.5	57	12.1	52	11.1
Miami	213	9.8	224	10.2	224	10.2	204	9.0	228	10.0
Mitchell	118	14.1	97	11.4	85	9.9	100	12.5	104	13.0
Montgomery	487	11.3	539	12.2	471	10.5	520	12.2	495	11.6
Morris	77	12.0	102	16.0	100	15.8	93	14.3	78	12.2
Morton	26	7.4	34	9.7	26	7.4	41	11.4	28	7.8
Nemaha	118	10.7	142	13.0	156	14.4	131	11.8	123	11.1
Neosho	244	12.8	244	12.7	226	11.7	204	10.4	232	11.7
Ness	66	15.0	51	11.7	59	13.6	46	10.0	43	9.3
Norton	93	14.3	94	14.5	89	13.8	96	14.8	90	13.8
Osage	167	10.6	186	11.6	176	10.8	153	9.4	177	10.7
Osborne	86	14.9	108	19.0	95	16.9	88	15.2	87	15.3
Ottawa	78	12.9	94	15.6	76	12.7	80	13.6	76	12.9
Pawnee	94	12.0	88	11.4	86	11.3	107	13.0	85	10.4
Phillips	91	12.2	117	15.8	109	14.9	127	17.4	100	13.9
Pottawatomie	121	7.7	150	9.2	161	9.5	141	8.8	158	9.7
Pratt	104	9.8	119	11.0	117	10.6	114	10.4	102	9.2
Rawlins	44	11.3	44	11.5	47	12.4	42	10.5	57	14.3
Reno	669	10.1	588	8.8	636	9.4	632	9.7	642	9.9
Republic	136	18.3	112	15.2	114	15.6	99	13.9	105	15.0
Rice	146	12.6	138	12.0	156	13.7	139	11.9	141	12.2
Riley	235	3.6	265	4.0	227	3.4	238	3.7	260	4.1
Rooks	105	16.2	91	14.4	93	15.0	78	11.1	84	12.0
Rush	55	12.4	60	13.8	49	11.5	63	14.3	75	17.4
Russell	121	14.6	123	15.0	123	15.2	107	11.8	114	12.5
Saline	424	8.2	447	8.5	418	7.8	419	8.3	449	8.9
Scott	62	10.3	59	9.7	42	6.9	43	7.3	64	10.8
Sedgwick	2,764	7.5	2,819	7.6	2,920	7.8	2,982	7.8	2,968	7.7
Seward	125	7.1	119	6.6	137	7.5	128	6.9	150	8.0
Shawnee	1,321	8.3	1,320	8.3	1,395	8.7	1,430	9.0	1,394	8.8
Sheridan	37	10.0	47	12.8	39	10.7	24	6.9	34	10.0
Sherman	60	7.7	95	12.4	68	9.0	94	12.4	85	11.3
Smith	77	12.9	69	11.7	86	14.8	91	16.3	82	14.9
Stafford	83	15.0	87	16.0	76	14.1	69	11.9	95	16.4
Stanton	24	9.4	15	5.9	13	5.1	22	8.8	15	6.0
Stevens	41	8.0	35	6.7	54	10.1	41	8.4	47	9.6
Sumner	314	12.3	286	11.0	288	10.9	280	10.9	284	11.0
Thomas	76	8.8	71	8.2	92	10.5	70	7.7	72	7.8
Trego	34	8.4	50	12.5	61	15.5	54	12.6	50	11.6
Wabaunsee	92	13.4	76	11.0	88	12.7	79	11.4	79	11.4
Wallace	18	8.9	14	7.1	25	12.9	14	7.0	18	9.0
Washington	106	12.7	115	14.0	124	15.3	119	14.7	126	15.8
Wichita	25	8.4	26	9.0	17	6.1	17	5.9	19	6.8
Wilson	147	11.5	181	13.8	170	12.7	148	12.2	182	15.0
Woodson	67	15.0	57	12.7	65	14.4	61	13.6	63	14.0
Wyandotte	1,665	9.6	1,651	9.6	1,664	9.7	1,646	9.6	1,738	10.2

*Rate per 1,000 population.

**1985 rates have been recalculated based upon the revised population estimates and will differ from those previously published.

Table 33
Deaths by Age Group and Average Age at Death
By County of Residence
Kansas, 1986

County of Residence	Total	Age Group												
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.	Average Age at Death
Kansas.....	22,133	337	88	102	354	424	503	927	2,457	4,643	6,447	5,849	2	72.3
Allen.....	184	1	-	-	4	-	1	7	17	33	68	53	-	75.7
Anderson.....	97	1	-	-	1	-	3	1	10	17	41	23	-	75.9
Atchison.....	199	-	2	1	2	2	4	8	20	38	56	66	-	75.1
Barber.....	98	2	-	-	3	1	1	3	11	17	34	26	-	73.5
Barton.....	302	3	3	2	3	5	6	11	34	64	104	67	-	72.1
Bourbon.....	195	-	-	1	2	1	5	3	15	48	65	55	-	76.3
Brown.....	178	2	1	1	-	-	1	1	11	35	61	65	-	78.6
Butler.....	384	9	-	2	9	8	11	23	50	77	118	77	-	69.7
Chase.....	54	-	-	-	1	1	1	2	4	14	16	15	-	74.9
Chautauqua.....	81	-	1	-	1	3	2	1	10	20	17	26	-	74.0
Cherokee.....	297	5	-	3	-	7	10	7	40	77	95	53	-	70.7
Cheyenne.....	49	1	-	1	1	-	-	2	5	11	16	12	-	72.9
Clark.....	26	1	1	-	1	-	1	-	2	5	7	8	-	69.4
Clay.....	143	1	-	-	2	1	1	3	8	24	44	59	-	78.9
Cloud.....	165	1	-	-	2	-	3	3	10	30	57	59	-	78.4
Coffey.....	105	-	-	-	2	1	2	1	9	17	32	41	-	78.3
Comanche.....	41	-	-	-	-	-	1	1	5	11	14	9	-	76.2
Cowley.....	416	5	-	-	5	4	6	14	45	74	140	123	-	75.3
Crawford.....	442	2	-	2	3	3	3	15	46	94	150	124	-	75.8
Decatur.....	59	-	1	-	-	-	-	4	5	6	21	22	-	78.0
Dickinson.....	233	3	-	1	2	2	4	4	15	43	68	91	-	77.6
Doniphan.....	100	-	-	-	2	-	2	2	10	22	30	32	-	76.5
Douglas.....	416	6	-	2	6	14	11	26	47	80	116	107	1	71.1
Edwards.....	53	-	-	1	1	1	-	-	6	10	16	18	-	74.7
Elk.....	66	-	-	-	-	1	-	1	5	17	20	22	-	77.6
Ellis.....	184	4	-	1	2	5	7	6	25	35	50	49	-	71.2
Ellsworth.....	109	1	1	-	1	1	3	4	11	24	29	34	-	74.3
Finney.....	164	9	2	1	11	11	8	7	13	38	36	28	-	61.5
Ford.....	213	13	1	-	5	5	9	15	19	49	49	48	-	66.2
Franklin.....	220	-	-	2	5	5	2	12	22	53	67	52	-	72.8
Geary.....	195	12	4	-	10	6	7	15	23	34	42	42	-	62.6
Gove.....	32	-	-	2	1	2	-	2	1	4	11	9	-	69.7
Graham.....	33	-	1	-	-	1	-	-	3	2	11	15	-	78.5
Grant.....	46	1	1	1	1	1	-	1	7	12	11	10	-	68.1
Gray.....	35	-	-	-	-	3	-	1	3	11	11	6	-	71.2

Table 33 (cont.)
Deaths by Age Group and Average Age at Death
By County of Residence
Kansas, 1986

County of Residence	Total	Age Group												
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.	Average Age at Death
Greeley.....	16	-	-	-	-	-	1	-	3	4	6	2	-	71.8
Greenwood.....	135	1	-	1	-	1	2	4	9	26	42	49	-	77.3
Hamilton.....	31	-	-	-	-	1	3	1	7	4	9	6	-	69.5
Harper.....	113	2	-	-	3	2	2	3	11	28	31	31	-	73.6
Harvey.....	296	3	1	-	5	4	7	13	22	62	90	89	-	74.4
Haskell.....	32	1	-	-	1	1	-	2	5	3	10	9	-	70.5
Hodgeman.....	25	-	1	-	-	-	-	-	6	6	8	4	-	71.2
Jackson.....	147	1	2	2	6	2	2	5	11	23	40	53	-	73.1
Jefferson.....	134	2	3	-	4	1	2	6	14	19	36	47	-	72.7
Jewell.....	77	-	-	-	-	-	1	1	5	16	25	29	-	79.5
Johnson.....	1,694	19	7	7	25	48	55	104	241	392	447	349	-	69.8
Kearny.....	30	1	-	-	1	-	1	3	6	8	7	3	-	65.1
Kingman.....	93	2	-	1	1	1	2	3	7	18	29	29	-	73.8
Kiowa.....	49	-	-	-	1	-	-	-	3	9	21	15	-	78.8
Labette.....	282	2	3	2	3	4	10	4	27	72	82	73	-	72.8
Lane.....	30	-	1	-	-	-	1	1	2	8	7	10	-	74.6
Leavenworth.....	390	6	1	2	6	6	10	22	44	101	103	89	-	70.8
Lincoln.....	76	-	-	-	1	2	1	1	4	17	22	28	-	77.1
Linn.....	121	1	-	-	2	2	-	1	10	20	36	49	-	78.0
Logan.....	46	-	1	-	1	-	-	2	2	8	15	17	-	77.2
Lyon.....	295	5	1	2	6	4	8	8	25	65	70	101	-	73.9
Marion.....	210	-	-	2	2	2	4	5	13	32	64	86	-	78.1
Marshall.....	179	2	-	1	-	2	3	2	13	33	63	60	-	77.4
McPherson.....	268	4	1	-	3	2	3	8	26	49	86	86	-	75.6
Meade.....	52	-	-	-	1	1	2	3	7	12	12	14	-	73.2
Miami.....	228	3	-	1	5	8	5	10	20	42	81	53	-	71.9
Mitchell.....	104	-	-	-	-	-	2	4	8	19	36	35	-	78.2
Montgomery.....	495	7	-	1	3	9	7	13	52	106	176	121	-	74.2
Morris.....	78	-	1	-	1	1	-	2	3	22	15	33	-	78.1
Morton.....	28	-	-	-	2	1	2	1	2	5	8	7	-	68.9
Nemaha.....	123	1	1	1	2	2	-	2	11	24	36	43	-	75.6
Neosho.....	232	2	-	-	9	2	3	9	20	39	80	68	-	74.6
Ness.....	43	-	-	-	-	1	1	2	2	12	12	13	-	75.9
Norton.....	90	1	-	-	1	1	2	2	10	17	25	31	-	75.6
Osage.....	177	3	-	-	1	3	5	7	18	40	42	58	-	74.3

Table 33 (cont.)
Deaths by Age Group and Average Age at Death
By County of Residence
Kansas, 1986

County of Residence	Total	Age Group												
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.	Average Age at Death
Osborne.....	87	-	-	-	1	1	4	2	5	13	19	42	-	77.8
Ottawa.....	76	-	-	-	2	2	1	2	7	10	28	24	-	76.0
Pawnee.....	85	-	-	-	1	-	2	1	4	17	33	27	-	77.7
Phillips.....	100	-	-	1	-	2	3	-	8	26	29	31	-	75.9
Pottawatomie.....	158	4	1	1	4	3	4	9	9	22	54	47	-	72.2
Pratt.....	102	2	-	-	5	1	2	6	9	17	29	31	-	72.0
Rawlins.....	57	1	-	-	-	1	-	1	4	10	21	19	-	77.4
Reno.....	642	12	3	4	7	8	12	23	69	128	179	197	-	73.5
Republic.....	105	-	-	-	1	1	1	2	5	19	37	39	-	78.8
Rice.....	141	1	-	-	1	1	2	9	12	29	47	39	-	75.5
Riley.....	260	8	3	-	5	5	8	8	24	52	76	71	-	70.7
Rooks.....	84	-	-	1	-	1	1	5	8	12	35	21	-	75.8
Rush.....	75	-	-	-	1	-	-	1	2	14	26	31	-	80.3
Russell.....	114	-	-	-	-	2	1	3	11	30	35	32	-	75.7
Saline.....	449	6	4	2	9	8	4	11	45	105	120	135	-	73.3
Scott.....	64	1	1	-	2	4	-	2	4	11	22	17	-	71.6
Sedgwick.....	2,968	78	13	21	49	81	71	170	432	647	773	633	-	69.0
Seward.....	150	2	-	1	5	5	2	8	19	35	50	23	-	68.9
Shawnee.....	1,394	25	6	6	21	31	41	65	175	302	402	320	-	70.8
Sheridan.....	34	-	-	-	1	-	-	2	1	5	15	10	-	77.0
Sherman.....	85	-	1	3	3	2	3	6	9	14	22	22	-	68.6
Smith.....	82	-	1	1	-	1	-	1	2	12	33	31	-	79.7
Stafford.....	95	1	1	1	-	1	1	5	8	18	30	29	-	74.2
Stanton.....	15	1	-	-	-	-	2	1	3	3	4	1	-	63.3
Stevens.....	47	-	-	1	-	1	2	2	3	16	13	9	-	71.2
Sumner.....	284	5	3	1	4	5	6	13	27	60	90	70	-	71.9
Thomas.....	72	2	-	-	3	-	-	2	10	11	22	22	-	73.4
Trego.....	50	-	-	-	1	-	1	1	8	6	17	16	-	75.5
Wabaunsee.....	79	1	-	-	1	-	1	3	7	16	21	29	-	76.6
Wallace.....	18	-	-	-	-	-	-	-	1	6	8	3	-	77.4
Washington.....	126	-	-	-	2	-	5	3	8	24	40	44	-	77.1
Wichita.....	19	-	-	1	-	1	-	1	3	4	2	7	-	70.3
Wilson.....	182	1	1	1	3	1	2	4	18	36	57	58	-	75.5
Woodson.....	63	-	-	-	1	-	-	-	2	20	19	21	-	77.8
Wyandotte.....	1,738	34	7	9	36	46	59	95	259	386	444	362	1	68.8

Table 34
Twenty Leading Causes of Death
By County of Residence
Kansas, 1986

County of Residence	Cause of Death																		
	Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Accidents	Chronic Obstructive Pulmonary Disease	Pneumonia and Influenza	Diabetes Mellitus	Suicide	Atherosclerosis	Nephritis Nephrotic Syndrome and Nephrosis	Aortic Aneurysm	Chronic Liver Disease and Cirrhosis	Septicemia	Congenital Anomalies	Certain Conditions Originating in the Perinatal Period	Homicide and Legal Intervention	Gastrointestinal Hemorrhage	Ulcer of the Stomach	Nonpsychotic Mental Disorders	Hypertension
Kansas	8,037	4,653	1,699	1,049	897	868	365	334	306	243	195	176	164	125	122	116	100	81	76	76
Allen	74	42	14	7	4	6	7	2	-	3	3	2	1	1	-	1	1	-	-	2
Anderson	41	21	7	3	1	1	4	1	1	6	-	-	-	-	1	1	-	1	1	-
Atchison	79	40	16	15	5	6	2	1	3	4	1	4	1	-	-	1	1	-	-	1
Barber	28	23	8	5	4	4	5	1	-	1	2	1	-	1	2	-	-	1	-	-
Barton	124	75	20	20	12	7	3	2	1	2	3	-	1	1	1	1	-	3	1	1
Bourbon	89	46	16	5	2	1	-	-	2	4	1	1	2	-	-	-	-	2	-	-
Brown	75	35	12	6	9	8	3	-	11	1	-	-	-	3	-	-	1	1	-	-
Butler	134	87	35	26	15	3	8	6	4	4	4	3	2	4	2	2	1	2	5	1
Chase	26	12	5	1	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-	1
Chautauqua	32	14	2	7	5	3	3	1	2	2	1	-	-	-	-	-	-	-	-	2
Cherokee	119	49	31	17	14	11	3	3	1	2	3	2	1	-	2	2	3	-	-	1
Cheyenne	17	2	7	4	1	1	1	-	2	1	1	-	-	-	-	1	-	1	-	-
Clark	11	3	1	5	-	1	-	-	-	-	1	-	-	-	-	-	1	-	-	-
Clay	55	26	10	10	6	18	3	-	2	1	-	-	1	-	-	-	1	-	-	-
Cloud	58	38	17	5	9	10	1	3	4	1	-	3	2	1	-	-	-	-	-	-
Coffey	37	26	9	7	6	9	1	-	3	-	1	1	1	-	-	-	1	-	-	-
Comanche	20	10	4	-	-	2	-	-	-	1	-	-	-	-	-	-	1	-	-	-
Cowley	128	95	36	12	21	26	10	5	8	3	3	6	1	3	1	-	-	6	-	2
Crawford	194	83	29	9	22	14	7	5	2	6	5	5	3	-	-	1	-	3	2	1
Decatur	24	11	5	1	5	2	2	-	1	1	-	-	1	-	-	-	-	1	-	-
Dickinson	75	54	19	11	13	18	1	3	4	3	3	1	3	2	1	-	3	1	2	1
Doniphan	32	29	9	2	5	2	3	2	1	2	2	-	2	-	-	-	1	-	-	1
Douglas	107	87	40	29	18	28	7	4	9	4	1	4	4	2	4	3	2	3	1	1
Edwards	23	8	1	3	2	2	3	1	1	1	-	-	1	-	-	-	-	-	-	-
Elk	22	15	9	2	3	4	1	2	1	-	-	-	-	-	-	-	-	-	-	-
Ellis	73	39	9	9	7	7	2	3	3	2	2	2	2	2	1	1	-	-	-	-
Ellsworth	44	15	18	1	-	1	-	1	-	3	3	1	1	1	-	-	-	-	-	1
Finney	53	38	3	11	8	6	1	3	1	3	-	1	1	3	3	6	-	-	1	-
Ford	78	42	17	16	7	7	2	5	2	1	-	2	2	3	5	3	-	1	2	1
Franklin	65	45	19	17	16	23	4	2	1	1	1	3	1	1	-	-	1	-	-	2

Table 34 (cont.)
Twenty Leading Causes of Death
By County of Residence
Kansas, 1986

County of Residence	Cause of Death																			
	Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Accidents	Chronic Obstructive Pulmonary Disease	Pneumonia and Influenza	Diabetes Mellitus	Suicide	Atherosclerosis	Nephr[illegible] Syndrome and Nephrosis	Aortic Aneurysm	Chronic Liver Disease and Cirrhosis	Septicemia	Congenital Anomalies	Certain Conditions Originating in the Perinatal Period	Homicide and Legal Intervention	Gastrointestinal Hemorrhage	Ulcer of the Stomach	Nonpsychotic Mental Disorders	Hypertension
Geary	50	42	11	22	3	4	8	2	6	3	2	2	4	2	8	2	-	1	-	-
Gove	11	4	2	1	-	3	3	1	-	-	2	-	1	1	-	-	-	-	-	1
Graham	14	6	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grant	21	6	3	2	3	-	2	1	1	1	2	-	1	-	-	-	-	-	-	-
Gray	10	9	4	3	1	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-
Greeley	10	3	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Greenwood	62	19	13	6	4	10	2	1	-	1	-	2	1	1	1	-	-	-	2	-
Hamilton	11	10	3	2	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Harper	49	12	5	5	2	4	-	2	2	2	3	-	1	-	-	-	5	3	1	-
Harvey	110	56	33	15	14	9	4	4	3	3	3	2	1	3	-	-	1	3	1	-
Haskell	9	5	2	2	3	1	1	1	-	1	1	2	-	-	-	-	-	1	-	1
Hodgeman	5	3	4	1	3	1	-	-	3	-	1	-	-	1	-	-	-	-	-	1
Jackson	58	25	16	11	4	3	2	4	1	1	-	1	-	-	-	3	2	-	-	1
Jefferson	30	24	15	12	7	6	2	4	6	2	-	-	2	2	1	-	1	2	-	4
Jewell	27	14	14	6	1	4	2	-	3	-	1	-	-	-	-	-	1	-	-	-
Johnson	577	450	103	83	69	55	15	40	18	17	8	16	13	14	4	10	8	3	4	8
Kearny	17	4	-	3	1	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-
Kingman	27	19	10	6	5	6	2	2	-	-	1	-	-	-	-	-	1	-	-	-
Kiowa	19	5	7	3	-	-	-	-	3	-	2	-	-	-	-	-	-	-	3	1
Labette	113	70	13	14	13	16	1	1	3	1	2	3	2	1	1	-	1	2	-	-
Lane	9	6	5	1	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Leavenworth	133	94	20	15	20	13	9	10	11	6	4	5	1	1	2	-	-	-	1	1
Lincoln	28	14	6	6	1	7	1	1	-	1	1	-	-	-	-	-	-	-	-	-
Linn	55	29	10	4	2	3	1	-	5	-	-	1	-	-	1	-	-	-	1	-
Logan	20	7	2	2	1	3	2	-	-	-	2	1	-	-	-	-	-	-	-	-
Lyon	125	47	22	17	17	14	8	1	2	3	4	3	2	1	2	-	4	-	-	1
Marion	75	28	16	8	4	16	5	5	4	3	4	1	1	-	-	1	3	2	1	-
Marshall	73	28	14	6	8	13	2	5	3	4	-	1	2	-	1	-	3	2	-	-
McPherson	86	53	28	9	18	14	4	1	2	2	8	1	5	3	-	-	2	1	2	2
Meade	20	11	4	1	3	2	2	-	1	1	1	1	-	-	-	2	-	-	-	-

Table 34 (cont.)
Twenty Leading Causes of Death
By County of Residence
Kansas, 1986

County of Residence	Cause of Death																			
	Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Accidents	Chronic Obstructive Pulmonary Disease	Pneumonia and Influenza	Diabetes Mellitus	Suicide	Atherosclerosis	Nephritis Nephrotic Syndrome and Nephrosis	Aortic Aneurysm	Chronic Liver Disease and Cirrhosis	Septicemia	Congenital Anomalies	Certain Conditions Originating in the Perinatal Period	Homicide and Legal Intervention	Gastrointestinal Hemorrhage	Ulcer of the Stomach	Nonpsychotic Mental Disorders	Hypertension
Miami	88	39	14	20	5	13	4	4	1	2	4	-	1	1	1	2	-	-	-	2
Mitchell	38	21	11	2	1	7	3	-	11	-	1	-	-	-	-	-	1	-	-	1
Montgomery	171	106	39	19	16	10	7	4	6	9	2	3	4	4	2	-	1	-	1	2
Morris	23	16	10	3	1	2	1	1	-	-	1	-	-	-	-	-	-	-	-	1
Morton	11	9	-	4	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-
Nemaha	34	27	15	13	4	9	3	2	1	-	-	1	-	2	-	-	1	-	3	-
Neosho	96	50	18	13	10	6	3	1	1	3	2	1	2	1	1	-	-	2	3	-
Ness	17	11	-	2	1	-	1	-	-	-	1	-	1	-	-	-	1	-	-	2
Norton	27	24	8	2	4	6	1	1	6	-	2	1	1	-	1	-	-	-	-	-
Osage	71	38	14	10	3	5	8	3	2	3	-	2	1	1	1	-	-	2	-	2
Osborne	48	15	5	3	2	5	-	-	-	-	-	-	-	1	-	1	2	1	-	-
Ottawa	26	13	10	5	6	4	1	2	-	1	1	-	-	-	-	-	-	-	-	1
Pawnee	42	16	4	2	-	1	3	1	1	1	3	-	-	1	-	1	-	1	1	-
Phillips	51	14	5	4	1	3	1	1	9	4	1	-	-	-	-	-	-	-	1	-
Pottawatomie	51	30	17	11	7	3	5	2	9	1	-	1	4	2	2	1	-	1	1	-
Pratt	31	22	9	7	5	2	-	2	3	1	2	-	-	-	1	-	1	-	-	1
Rawlins	21	11	2	2	3	6	1	-	-	1	1	-	1	-	-	-	-	-	1	-
Reno	245	128	59	29	31	30	14	6	2	8	3	6	2	4	3	-	3	2	1	-
Republic	34	19	18	3	4	7	2	1	3	-	1	1	2	-	-	-	1	-	-	-
Rice	53	29	10	3	10	4	-	1	1	2	1	1	1	-	1	-	2	1	1	1
Riley	110	65	16	10	9	8	2	2	3	1	1	1	2	2	3	1	2	-	-	1
Rooks	43	17	1	4	2	7	2	-	-	-	-	-	2	-	-	-	-	1	-	-
Rush	26	17	6	1	5	-	1	-	-	-	3	-	1	-	-	-	-	-	8	1
Russell	53	19	13	5	6	1	2	-	1	2	1	-	-	-	-	-	1	-	-	-
Saline	171	99	38	19	21	16	4	9	6	4	2	-	4	6	2	1	5	-	1	-
Scott	18	20	6	5	2	1	1	-	-	1	-	-	1	-	-	-	-	1	1	-
Sedgwick	1,047	651	230	120	116	82	47	57	42	35	36	32	24	22	35	23	10	8	7	8
Seward	54	33	9	8	6	3	2	5	4	-	1	1	1	-	-	2	-	1	1	-
Shawnee	505	284	99	45	58	59	19	34	15	8	10	17	14	10	10	12	7	7	3	6
Sheridan	19	6	5	1	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-

Table 34 (cont.)
Twenty Leading Causes of Death
By County of Residence
Kansas, 1986

County of Residence	Cause of Death																			
	Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Accidents	Chronic Obstructive Pulmonary Disease	Pneumonia and Influenza	Diabetes Mellitus	Suicide	Atherosclerosis	Nephritis Nephrotic Syndrome and Nephrosis	Aortic Aneurysm	Chronic Liver Disease and Cirrhosis	Septicemia	Congenital Anomalies	Certain Conditions Originating in the Perinatal Period	Homicide and Legal Intervention	Gastrointestinal Hemorrhage	Ulcer of the Stomach	Nonpsychotic Mental Disorders	Hypertension
Shermar.....	33	17	5	9	2	3	-	5	1	-	-	-	-	-	-	-	-	1	-	-
Smith.....	38	15	6	4	-	3	-	-	2	-	2	1	1	-	-	-	-	-	1	-
Stafford.....	33	17	8	5	3	7	1	2	1	-	1	-	1	1	-	-	-	-	-	-
Stanton.....	3	4	-	1	1	1	1	-	-	-	-	1	-	1	-	-	-	1	-	-
Stevens.....	18	12	3	3	1	1	1	2	1	2	-	-	-	-	-	-	-	-	-	-
Sumner.....	108	51	25	18	9	7	12	6	4	2	3	2	-	2	1	2	1	-	-	-
Thomas.....	23	17	5	3	7	-	-	2	2	-	1	-	1	1	-	-	-	-	1	-
Trego.....	14	13	8	2	1	-	1	-	-	1	-	1	-	-	-	-	1	-	1	-
Wabaunsee.....	29	19	7	6	4	-	1	1	-	1	1	1	-	-	1	-	1	1	-	-
Wallace.....	6	6	-	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Washington.....	47	22	10	5	7	12	3	1	1	2	2	-	5	-	-	-	1	1	1	-
Wichita.....	9	1	1	2	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Wilson.....	65	34	11	8	11	9	3	5	4	2	2	2	2	-	-	-	1	-	-	-
Woodson.....	27	16	4	1	2	3	-	1	-	-	-	-	-	-	-	1	1	-	-	-
Wyandotte.....	569	357	99	73	74	73	35	24	14	30	9	15	13	5	12	27	6	3	7	6

Table 35
Marriages by Number and Rate*
By County of Marriage
Kansas, 1982-1986

County of Marriage	Year									
	1982		1983		1984		1985**		1986	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Kansas	26,670	11.1	25,877	10.7	24,737	10.1	23,281	9.5	22,667	9.2
Allen	133	8.2	140	8.5	170	10.2	142	8.8	108	6.7
Anderson	87	9.9	88	9.9	68	7.6	81	9.1	92	10.3
Atchison	188	10.5	172	9.6	180	10.1	150	8.4	165	9.2
Barber	70	10.7	78	11.9	52	7.9	68	9.6	73	10.3
Barton	429	13.3	342	10.5	398	12.2	350	10.5	295	8.8
Bourbon	189	11.5	200	12.0	145	8.6	146	9.1	138	8.5
Brown	122	10.0	102	8.2	100	7.9	104	8.8	94	8.0
Butler	435	9.2	397	8.2	394	7.9	365	7.7	362	7.6
Chase	34	10.3	28	8.6	17	5.3	27	8.4	23	7.2
Chautauqua	68	13.3	69	13.2	48	8.9	56	11.0	43	8.4
Cherokee	167	7.5	179	8.0	161	7.1	176	7.9	133	6.0
Cheyenne	47	12.8	31	8.6	28	7.9	33	9.2	36	10.0
Clark	26	10.0	31	12.1	22	8.7	23	8.5	19	7.0
Clay	89	8.9	89	8.8	86	8.5	83	8.6	92	9.6
Cloud	133	10.7	126	10.2	112	9.1	103	8.5	92	7.7
Coffey	100	10.0	86	8.2	90	8.3	60	5.9	79	7.7
Comanche	23	9.2	30	12.1	31	12.7	13	5.0	18	6.9
Cowley	458	12.3	411	10.8	402	10.4	411	10.9	357	9.4
Crawford	321	8.5	286	7.5	287	7.6	260	6.8	281	7.3
Decatur	69	15.1	81	17.9	50	11.2	50	10.9	41	8.9
Dickinson	236	11.6	223	11.0	176	8.7	164	8.2	150	7.5
Doniphan	99	10.7	91	9.8	85	9.1	70	7.7	67	7.4
Douglas	709	10.4	723	10.5	706	10.2	724	10.1	706	9.7
Edwards	45	10.4	46	10.8	43	10.1	29	7.1	22	5.4
Elk	46	11.1	40	9.4	33	7.6	39	10.3	31	8.2
Ellis	317	11.8	301	11.2	285	10.6	238	8.4	219	7.7
Ellsworth	61	8.9	54	7.7	45	6.3	33	5.0	46	7.0
Finney	387	15.6	355	14.0	318	12.4	322	11.1	320	10.8
Ford	365	14.8	345	13.9	316	12.6	306	11.7	274	10.4
Franklin	205	9.3	206	9.2	222	9.7	177	7.8	205	9.0
Geary	826	27.3	897	29.6	761	25.1	770	25.4	713	23.5
Gove	35	9.1	37	9.7	34	8.9	33	8.9	31	8.4
Graham	51	12.8	34	8.7	36	9.4	42	10.5	34	8.5
Grant	77	10.3	80	10.5	83	10.8	85	12.1	76	10.9
Gray	57	10.7	50	9.3	41	7.6	55	10.0	45	8.2
Greeley	21	11.0	18	9.3	19	9.7	29	15.3	19	10.0
Greenwood	98	11.7	93	11.3	83	10.2	78	8.9	66	7.5
Hamilton	21	7.8	28	10.4	27	10.1	27	10.8	24	9.6
Harper	74	9.2	69	8.5	80	9.7	78	9.9	47	5.9
Harvey	360	11.5	339	10.7	354	11.0	308	9.7	310	9.7
Haskell	38	9.2	44	10.7	40	9.7	35	9.0	51	13.1
Hodgeman	15	6.5	22	9.6	19	8.4	13	5.9	13	5.9
Jackson	84	7.0	82	6.8	97	8.0	84	7.0	76	6.3
Jefferson	147	9.0	154	9.2	134	7.7	123	7.5	129	7.7
Jewell	50	9.7	47	9.3	40	8.0	39	7.8	31	6.3
Johnson	2,576	9.0	2,607	9.0	2,584	8.7	2,529	8.5	2,624	8.6
Kearny	38	10.6	55	15.3	44	12.1	44	11.3	32	8.0
Kingman	87	9.5	84	9.1	85	9.1	69	7.6	80	8.8
Kiowa	57	14.6	27	7.0	34	8.9	35	8.5	46	11.2
Labette	188	7.2	172	6.6	191	7.2	192	7.4	136	5.3
Lane	24	9.6	18	7.3	22	9.0	24	9.6	11	4.4
Leavenworth	521	9.5	539	9.9	485	8.9	497	8.7	567	9.8
Lincoln	28	6.9	30	7.5	26	6.6	21	5.4	23	5.9
Linn	66	7.9	61	7.3	56	6.7	45	5.4	53	6.3
Logan	48	13.5	32	9.0	35	10.0	34	10.0	39	11.5

Table 35 (cont.)
Marriages by Number and Rate*
By County of Marriage
Kansas, 1982-1986

County of Marriage	Year									
	1982		1983		1984		1985**		1986	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Lyon	425	11.9	420	11.6	443	12.1	335	8.9	336	8.8
Marion	134	10.0	121	9.0	106	7.9	94	7.1	88	6.7
Marshall	126	10.1	126	10.2	126	10.3	118	9.1	118	9.1
McPherson	259	9.4	289	10.4	227	8.0	239	8.6	184	6.5
Meade	57	11.9	57	11.9	61	12.8	49	10.4	38	8.1
Miami	230	10.6	207	9.5	192	8.7	178	7.8	192	8.4
Mitchell	75	9.0	69	8.1	98	11.4	65	8.1	50	6.3
Montgomery	488	11.3	423	9.6	394	8.8	385	9.1	362	8.5
Morris	58	9.1	69	10.8	48	7.6	64	9.8	47	7.3
Morton	39	11.1	38	10.8	43	12.3	27	7.5	30	8.3
Nemaha	121	11.0	107	9.8	98	9.1	83	7.5	108	9.7
Neosho	189	9.9	170	8.8	167	8.6	185	9.4	119	6.0
Ness	56	12.7	43	9.8	41	9.5	45	9.8	30	6.5
Norton	85	13.0	71	11.0	81	12.6	57	8.8	61	9.4
Osage	171	10.9	166	10.4	153	9.4	130	8.0	127	7.7
Osborne	43	7.5	48	8.4	49	8.7	32	5.5	35	6.1
Ottawa	61	10.1	47	7.8	53	8.9	48	8.1	43	7.3
Pawnee	101	12.9	81	10.5	73	9.6	75	9.1	65	7.9
Phillips	78	10.5	68	9.2	72	9.8	69	9.5	55	7.6
Pottawatomie	142	9.0	118	7.2	124	7.3	130	8.1	103	6.3
Pratt	100	9.4	128	11.8	103	9.3	94	8.5	101	9.1
Rawlins	39	10.0	33	8.6	36	9.5	26	6.5	29	7.3
Reno	776	11.7	776	11.6	713	10.6	676	10.4	698	10.7
Republic	72	9.7	74	10.0	80	10.9	66	9.3	58	8.3
Rice	129	11.1	118	10.3	94	8.2	111	9.5	90	7.8
Riley	534	8.1	570	8.6	483	7.3	467	7.3	471	7.3
Rooks	80	12.4	75	11.8	76	12.3	62	8.9	62	8.9
Rush	32	7.2	32	7.4	39	9.1	30	6.8	21	4.9
Russell	101	12.1	80	9.8	93	11.5	65	7.1	76	8.4
Saline	618	12.0	659	12.6	582	10.9	506	10.0	505	10.0
Scott	65	10.8	61	10.1	61	10.0	39	6.6	51	8.6
Sedgwick	4,870	13.2	4,764	12.8	4,440	11.8	4,243	11.1	4,178	10.8
Seward	260	14.7	270	15.1	248	13.7	252	13.6	221	11.8
Shawnee	1,680	10.6	1,647	10.3	1,706	10.6	1,519	9.6	1,521	9.6
Sheridan	26	7.0	37	10.1	21	5.8	19	5.4	16	4.7
Sherman	99	12.7	71	9.3	73	9.6	76	10.0	62	8.3
Smith	61	10.2	55	9.3	47	8.1	51	9.1	33	6.0
Stafford	65	11.8	63	11.6	54	10.1	55	9.5	35	6.0
Stanton	21	8.3	21	8.3	22	8.7	24	9.6	16	6.4
Stevens	57	11.2	52	10.0	41	7.7	43	8.8	46	9.4
Summer	303	11.8	277	10.6	267	10.1	254	9.9	240	9.3
Thomas	87	10.1	96	11.1	62	7.1	63	6.9	58	6.3
Trego	41	10.1	31	7.8	27	6.8	37	8.6	28	6.5
Wabaunsee	69	10.0	70	10.1	53	7.7	51	7.4	44	6.4
Wallace	21	10.4	14	7.1	18	9.3	16	8.0	12	6.0
Washington	93	11.2	66	8.0	56	6.9	67	8.3	67	8.4
Wichita	39	13.1	26	9.0	23	8.3	24	8.3	26	9.3
Wilson	134	10.5	106	8.1	116	8.6	83	6.9	87	7.2
Woodson	47	10.5	40	8.9	35	7.7	30	6.7	31	6.9
Wyandotte	1,968	11.4	1,858	10.8	1,939	11.3	1,732	10.1	1,736	10.0

*Rate per 1,000 population.

**1985 rates have been recalculated based on the revised population estimates and will differ from those previously published.

Table 36
Divorces and Annulments by Number and Rate*
By County of Action
Kansas, 1982-1986

County of Action	Year									
	1982		1983		1984		1985		1986	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate**	Number	Rate
Kansas.....	12,392	5.1	12,207	5.0	12,905	5.3	12,794	5.2	12,364	5.0
Allen.....	90	5.5	105	6.4	108	6.5	100	6.2	91	5.7
Anderson.....	45	5.1	36	4.0	39	4.3	39	4.4	43	4.8
Atchison.....	79	4.4	96	5.4	98	5.5	79	4.4	112	6.3
Barber.....	47	7.2	23	3.5	27	4.1	42	5.9	36	5.1
Barton.....	162	5.0	175	5.4	180	5.5	155	4.7	197	5.9
Bourbon.....	98	6.0	100	6.0	86	5.1	117	7.3	108	6.7
Brown.....	47	3.8	51	4.1	51	4.1	52	4.4	53	4.5
Butler.....	228	4.8	207	4.3	209	4.2	194	4.1	168	3.5
Chase.....	10	3.0	6	1.8	7	2.2	9	2.8	13	4.1
Chautauqua.....	11	2.2	18	3.4	25	4.6	25	4.9	18	3.5
Cherokee.....	118	5.3	128	5.7	121	5.3	117	5.2	116	5.2
Cheyenne.....	17	4.6	15	4.2	15	4.2	10	2.8	12	3.3
Clark.....	3	1.2	3	1.2	2	0.8	5	1.9	8	3.0
Clay.....	36	3.6	34	3.4	41	4.0	32	3.3	35	3.6
Cloud.....	29	2.3	49	4.0	53	4.3	23	1.9	45	3.8
Coffey.....	69	6.9	79	7.6	84	7.7	74	7.3	61	5.9
Comanche.....	5	2.0	13	5.2	7	2.9	9	3.5	8	3.1
Cowley.....	225	6.0	233	6.1	267	6.9	270	7.1	246	6.5
Crawford.....	176	4.7	187	4.9	205	5.4	187	4.9	215	5.6
Decatur.....	19	4.2	11	2.4	24	5.4	20	4.3	26	5.7
Dickinson.....	79	3.9	88	4.3	87	4.3	88	4.4	92	4.6
Doniphan.....	42	4.5	26	2.8	47	5.0	36	4.0	41	4.5
Douglas.....	398	5.8	341	5.0	385	5.6	378	5.3	354	4.9
Edwards.....	14	3.2	12	2.8	27	6.4	27	6.6	12	2.9
Elk.....	12	2.9	16	3.8	14	3.2	17	4.5	21	5.5
Ellis.....	110	4.1	136	5.1	143	5.3	149	5.2	133	4.7
Ellsworth.....	19	2.8	18	2.6	17	2.4	20	3.0	38	5.8
Finney.....	203	8.2	185	7.3	188	7.3	185	6.4	213	7.2
Ford.....	136	5.5	146	5.9	171	6.8	148	5.7	133	5.1
Franklin.....	115	5.2	110	4.9	104	4.6	134	5.9	113	5.0
Geary.....	355	11.7	383	12.6	363	12.0	352	11.6	375	12.4
Gove.....	9	2.3	7	1.8	4	1.1	8	2.2	6	1.6
Graham.....	21	5.3	20	5.1	26	6.8	22	5.5	9	2.3
Grant.....	42	5.6	47	6.2	45	5.8	46	6.6	33	4.7
Gray.....	16	3.0	18	3.4	21	3.9	23	4.2	17	3.1
Greeley.....	10	5.2	20	10.4	11	5.6	12	6.3	6	3.2
Greenwood.....	46	5.5	34	4.1	42	5.2	39	4.4	36	4.1
Hamilton.....	16	5.9	8	3.0	14	5.3	16	6.4	10	4.0
Harper.....	38	4.7	32	3.9	39	4.7	25	3.2	38	4.8
Harvey.....	135	4.3	128	4.0	27	0.8	48	1.5	52	1.6
Haskell.....	7	1.7	16	3.9	13	3.2	14	3.6	22	5.6
Hodgeman.....	9	3.9	6	2.6	8	3.6	9	4.1	8	3.6
Jackson.....	53	4.4	43	3.6	54	4.5	44	3.7	41	3.4
Jefferson.....	49	3.0	44	2.6	53	3.1	47	2.8	44	2.6
Jewell.....	22	4.3	13	2.6	19	3.8	29	5.8	17	3.5
Johnson.....	983	3.4	1,081	3.7	1,182	4.0	1,143	3.8	1,175	3.9
Kearny.....	20	5.6	18	5.0	12	3.3	17	4.4	14	3.5
Kingman.....	39	4.3	31	3.4	35	3.8	54	5.9	38	4.2
Kiowa.....	11	2.8	17	4.4	12	3.1	18	4.4	15	3.7
Labette.....	147	5.6	130	5.0	122	4.6	125	4.8	138	5.3
Lane.....	6	2.4	6	2.4	10	4.1	6	2.4	11	4.4
Leavenworth.....	371	6.8	327	6.0	358	6.6	345	6.0	322	5.6
Lincoln.....	14	3.4	12	3.0	9	2.3	6	1.5	11	2.8
Linn.....	33	3.9	45	5.4	41	4.9	66	7.9	42	5.0
Logan.....	15	4.2	14	4.0	19	5.4	13	3.8	10	2.9

Table 36 (cont.)
Divorces and Annulments by Number and Rate*
By County of Action
Kansas, 1982-1986

County of Action	Year									
	1982		1983		1984		1985		1986	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate**	Number	Rate
Lyon	200	5.6	202	5.6	184	5.0	176	4.7	156	4.1
Marion	48	3.6	42	3.1	48	3.6	41	3.1	43	3.3
Marshall	39	3.1	39	3.2	31	2.5	30	2.3	29	2.2
McPherson	73	2.7	100	3.6	121	4.3	91	3.3	103	3.7
Meade	23	4.8	15	3.1	19	4.0	28	6.0	23	4.9
Miami	125	5.7	101	4.6	100	4.6	88	3.9	125	5.5
Mitchell	18	2.2	29	3.4	18	2.1	18	2.3	15	1.9
Montgomery	282	6.5	261	5.9	289	6.4	227	5.3	292	6.9
Morris	26	4.1	28	4.4	23	3.6	23	3.5	24	3.8
Morton	19	5.4	15	4.3	19	5.4	17	4.7	22	6.1
Nemaha	16	1.5	20	1.8	28	2.6	16	1.4	29	2.6
Neosho	70	3.7	66	3.4	78	4.0	86	4.4	91	4.6
Ness	20	4.5	13	3.0	17	3.9	16	3.5	19	4.1
Norton	20	3.1	29	4.5	20	3.1	31	4.8	30	4.6
Osage	69	4.4	53	3.3	54	3.3	48	2.9	42	2.5
Osborne	22	3.8	20	3.5	19	3.4	18	3.1	14	2.5
Ottawa	27	4.5	29	4.8	25	4.2	33	5.6	29	4.9
Pawnee	45	5.7	42	5.4	41	5.4	49	6.0	25	3.0
Phillips	25	3.4	30	4.1	19	2.6	23	3.2	24	3.3
Pottawatomie	61	3.9	70	4.3	58	3.4	70	4.3	53	3.3
Pratt	72	6.8	75	6.9	65	5.9	63	5.7	63	5.7
Rawlins	15	3.9	7	1.8	6	1.6	5	1.3	14	3.5
Reno	451	6.8	424	6.4	414	6.1	378	5.8	370	5.7
Republic	20	2.7	12	1.6	28	3.8	22	3.1	14	2.0
Rice	27	2.3	19	1.7	21	1.8	30	2.6	25	2.2
Riley	198	3.0	234	3.5	201	3.0	155	2.4	158	2.5
Rooks	31	4.8	22	3.5	17	2.7	11	1.6	24	3.4
Rush	11	2.5	6	1.4	11	2.6	12	2.7	5	1.2
Russell	51	6.1	33	4.0	41	5.1	40	4.4	21	2.3
Saline	243	4.7	287	5.5	365	6.8	335	6.6	293	5.8
Scott	27	4.5	33	5.4	35	5.8	26	4.4	20	3.4
Sedgwick	2,963	8.0	2,865	7.7	2,847	7.6	3,046	8.0	2,863	7.4
Seward	95	5.4	108	6.0	129	7.1	113	6.1	134	7.2
Shawnee	821	5.2	794	5.0	851	5.3	871	5.5	730	4.6
Sheridan	2	0.5	10	2.7	2	0.5	4	1.1	8	2.4
Sherman	41	5.3	37	4.8	45	5.9	42	5.5	42	5.6
Smith	21	3.5	14	2.4	11	1.9	14	2.5	17	3.1
Stafford	29	5.3	18	3.3	22	4.1	22	3.8	23	4.0
Stanton	9	3.5	12	4.7	15	5.9	15	6.0	17	6.8
Stevens	26	5.1	23	4.4	32	6.0	29	5.9	33	6.7
Sumner	105	4.1	81	3.1	76	2.9	91	3.5	58	2.2
Thomas	43	5.0	36	4.2	44	5.0	43	4.7	30	3.3
Trego	19	4.7	12	3.0	14	3.6	8	1.9	19	4.4
Wabaunsee	20	2.9	20	2.9	20	2.9	22	3.2	17	2.5
Wallace	-	-	5	2.5	5	2.6	4	2.0	4	2.0
Washington	15	1.8	10	1.2	21	2.6	12	1.5	17	2.1
Wichita	13	4.4	10	3.5	11	4.0	9	3.1	10	3.6
Wilson	66	5.2	55	4.2	80	6.0	75	6.2	59	4.9
Woodson	18	4.0	26	5.8	21	4.6	15	3.3	16	3.6
Wyandotte	603	3.5	568	3.3	873	5.1	885	5.2	821	4.8

*Rate per 1,000 population.

**1985 rates have been recalculated based on the revised population estimates and will differ from those previously published.

Table 37
Estimated Population, Live Births and Total Deaths
By City of Residence
Kansas, 1985 and 1986

City of Residence	1985*					1986				
	Estimated Population	Live Births		Total Deaths		Estimated Population	Live Births		Total Deaths	
		Number	Rate	Number	Rate		Number	Rate	Number	Rate
Abilene	6,500	75	11.5	91	14.0	6,500	76	11.7	89	13.7
Andover	3,000	49	16.3	19	6.3	3,000	57	19.0	13	4.3
Anthony	2,700	34	12.6	42	15.6	2,700	30	11.1	52	19.3
Arkansas City	13,600	179	13.2	164	12.1	13,700	207	15.1	176	12.8
Atchison	11,100	166	15.0	155	14.0	11,100	145	13.1	132	11.9
Augusta	7,400	120	16.2	65	8.8	7,400	116	15.7	78	10.5
Baldwin City	3,000	28	9.3	15	5.0	3,000	26	8.7	21	7.0
Baxter Springs	4,800	50	10.4	53	11.0	4,800	60	12.5	73	15.2
Belleville	2,600	31	11.9	50	19.2	2,600	26	10.0	52	20.0
Beloit	4,300	50	11.6	53	12.3	4,300	44	10.2	56	13.0
Bonner Springs	6,200	105	16.9	49	7.9	6,200	119	19.2	60	9.7
Burlington	3,200	50	15.6	32	10.0	3,200	42	13.1	34	10.6
Chanute	10,900	163	15.0	122	11.2	11,000	161	14.6	157	14.3
Cherryvale	2,800	51	18.2	33	11.8	2,800	42	15.0	36	12.9
Clay Center	4,800	62	12.9	83	17.3	4,800	49	10.2	98	20.4
Coffeyville	15,300	215	14.1	194	12.7	15,300	190	12.4	177	11.6
Colby	6,000	97	16.2	45	7.5	6,000	91	15.2	50	8.3
Columbus	3,400	40	11.8	47	13.8	3,400	56	16.5	50	14.7
Concordia	6,600	81	12.3	87	13.2	6,600	80	12.1	91	13.8
Derby	10,200	195	19.1	64	6.3	10,300	157	15.2	66	6.4
Dodge City	19,300	490	25.4	159	8.2	19,500	441	22.6	162	8.3
Edwardsville	3,300	65	19.7	41	12.4	3,300	73	22.1	46	13.9
El Dorado	11,100	183	16.5	136	12.3	11,100	170	15.3	149	13.4
Ellinwood	2,700	36	13.3	36	13.3	2,700	32	11.9	36	13.3
Emporia	27,200	443	16.3	200	7.4	27,500	432	15.7	212	7.7
Eudora	3,100	46	14.8	23	7.4	3,100	37	11.9	26	8.4
Eureka	3,400	48	14.1	57	16.8	3,400	36	10.6	73	21.5
Fairway	5,100	46	9.0	51	10.0	5,200	55	10.6	40	7.7
Fort Scott	9,000	124	13.8	109	12.1	9,000	136	15.1	136	15.1
Fredonia	3,000	37	12.3	47	15.7	3,000	25	8.3	56	18.7
Frontenac	2,600	36	13.8	37	14.2	2,600	34	13.1	34	13.1
Galena	3,600	62	17.2	49	13.6	3,600	49	13.6	52	14.4
Garden City	22,100	593	26.8	145	6.6	22,700	614	27.0	138	6.1
Garnett	3,400	38	11.2	58	17.1	3,400	40	11.8	52	15.3
Girard	2,900	40	13.8	34	11.7	2,900	37	12.8	36	12.4
Goodland	5,600	84	15.0	72	12.9	5,500	70	12.7	66	12.0
Great Bend	17,600	347	19.7	155	8.8	17,800	320	18.0	158	8.9
Hays	17,700	341	19.3	107	6.0	17,700	328	18.5	117	6.6
Haysville	8,400	78	9.3	44	5.2	8,400	99	11.8	36	4.3
Herington	2,900	31	10.7	53	18.3	2,900	36	12.4	45	15.5
Hesston	3,100	47	15.2	21	6.8	3,200	35	10.9	8	2.5
Hiawatha	3,700	52	14.1	50	13.5	3,700	44	11.9	63	17.0
Hillsboro	2,700	31	11.5	43	15.9	2,700	17	6.3	47	17.4
Hoisington	3,900	56	14.4	53	13.6	3,900	53	13.6	44	11.3
Holton	3,200	51	15.9	60	18.8	3,300	33	10.0	61	18.5
Hugoton	3,300	51	15.5	30	9.1	3,300	56	17.0	39	11.8
Hutchinson	40,300	643	16.0	433	10.7	40,300	626	15.5	437	10.8
Independence	10,700	133	12.4	138	12.9	10,700	175	16.4	142	13.3

Table 37 (cont.)
Estimated Population, Live Births and Total Deaths
By City of Residence
Kansas, 1985 and 1986

City of	1985*					1986				
	Estimated Population	Live Births		Total Deaths		Estimated Population	Live Births		Total Deaths	
		Number	Rate	Number	Rate		Number	Rate	Number	Rate
Iola	7,100	104	14.6	89	12.5	7,100	96	13.5	98	13.8
Junction City	19,600	696	35.5	155	7.9	19,600	694	35.4	145	7.4
Kansas City	160,000	2,947	18.4	1,549	9.7	160,000	2,951	18.4	1,617	10.1
Kingman	3,600	49	13.6	45	12.5	3,600	51	14.2	45	12.5
Lansing	5,500	75	13.6	19	3.5	5,600	63	11.3	25	4.5
Larned	4,900	55	11.2	73	14.9	4,900	56	11.4	57	11.6
Lawrence	55,900	755	13.5	319	5.7	56,500	856	15.2	303	5.4
Leavenworth	35,200	376	10.7	290	8.2	35,400	508	14.4	261	7.4
Leawood	14,800	128	8.6	88	5.9	15,000	165	11.0	113	7.5
Lenexa	20,600	407	19.8	120	5.8	21,000	474	22.6	96	4.6
Liberal	16,200	352	21.7	112	6.9	16,300	375	23.0	135	8.3
Lindsborg	3,300	31	9.4	38	11.5	3,300	21	6.4	48	14.5
Lyons	4,100	69	16.8	52	12.7	4,000	46	11.5	61	15.3
Manhattan	32,800	792	24.1	177	5.4	33,000	781	23.7	190	5.8
Marysville	3,700	52	14.1	63	17.0	3,700	55	14.9	56	15.1
McPherson	12,200	214	17.5	104	8.5	12,300	210	17.1	114	9.3
Medicine Lodge	2,600	39	15.0	20	7.7	2,600	32	12.3	48	18.5
Merriam	11,900	193	16.2	88	7.4	12,100	178	14.7	70	5.8
Mission	9,600	126	13.1	78	8.1	9,700	113	11.6	82	8.5
Mission Hills	4,300	14	3.3	16	3.7	4,400	12	2.7	18	4.1
Mulvane	4,400	73	16.6	32	7.3	4,500	93	20.7	29	6.4
Neodesha	3,400	49	14.4	53	15.6	3,400	46	13.5	55	16.2
Newton	17,000	274	16.1	203	11.9	17,100	243	14.2	181	10.6
Norton	3,300	51	15.5	50	15.2	3,300	53	16.1	65	19.7
Olathe	41,200	1,107	26.9	196	4.8	41,900	1,127	26.9	219	5.2
Osage City	2,800	31	11.1	40	14.3	2,900	30	10.3	37	12.8
Osawatomie	4,700	71	15.1	53	11.3	4,700	55	11.7	60	12.8
Ottawa	11,300	198	17.5	138	12.2	11,400	160	14.0	132	11.6
Overland Park	90,500	1,238	13.7	491	5.4	92,000	1,305	14.2	490	5.3
Paola	4,800	75	15.6	72	15.0	4,800	61	12.7	65	13.5
Parsons	13,000	212	16.3	166	12.8	13,000	197	15.2	149	11.5
Phillipsburg	3,200	35	10.9	61	19.1	3,100	41	13.2	47	15.2
Pittsburg	19,000	255	13.4	230	12.1	19,000	231	12.2	218	11.5
Plainville	2,500	43	17.2	27	10.8	2,500	43	17.2	29	11.6
Prairie Village	27,300	330	12.1	168	6.2	27,700	341	12.3	172	6.2
Pratt	7,400	107	14.5	79	10.7	7,400	115	15.5	83	11.2
Roeland Park	8,800	134	15.2	56	6.4	9,000	112	12.4	52	5.8
Russell	5,600	73	13.0	66	11.8	5,600	70	12.5	76	13.6
Salina	43,100	646	15.0	361	8.4	43,300	660	15.2	392	9.1
Scott City	4,200	56	13.3	39	9.3	4,200	62	14.8	58	13.8
Shawnee	32,800	487	14.8	144	4.4	33,400	536	16.0	157	4.7
Topeka	117,900	1,882	16.0	1,244	10.6	118,100	1,872	15.9	1,209	10.2
Ulysses	4,700	106	22.6	46	9.8	4,700	113	24.0	37	7.9
Valley Center	3,400	56	16.5	30	8.8	3,500	63	18.0	30	8.6
Wamego	3,400	58	17.1	39	11.5	3,500	80	22.9	40	11.4
Wellington	8,500	137	16.1	107	12.6	8,500	136	16.0	105	12.4
Wichita	291,400	6,144	21.1	2,585	8.9	293,700	6,161	21.0	2,584	8.8
Winfield	11,000	155	14.1	122	11.1	11,100	174	15.7	143	12.9

* The 1985 population estimates are revisions of earlier 1985 estimates and will differ from these previously published. Rates for 1985 have been recalculated based upon these revised estimates.

Rates are expressed per 1,000 population.

Source: Kansas Department of Health and Environment

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